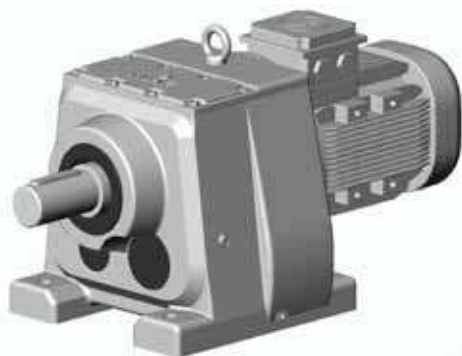


IR SERIES

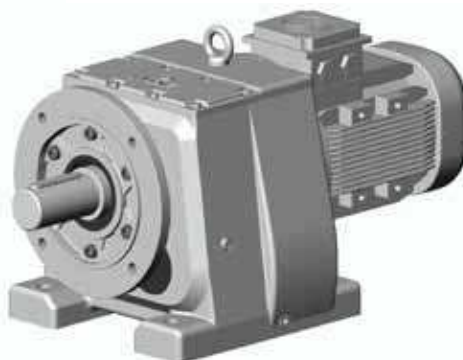
Monoblock Helicoidal Motoreductores

Monoblock Helical Geared Motors

Monoblock Stirnradgetriebemotoren



IRAM ...



IRAFM ...



IRAM ... - ...



IRFM ...

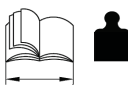


IRFM ... - ...



IRAM ... - ...



P ₁	n ₂	i	S _f	M ₂	F _{QV2}			Tipo		kg
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial			Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads			Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte					
[kW] Hp	[r.p.m]			[Nm]	[N]					
0,12 0,16	0,28	5008	0,84	3737	26000	IRAM IRFM	93 IR 63 / 63 M 4a		159 160	180 181
	0,30	4673	0,90	3488	26000					
	0,31	4545	0,92	3375	26000					
	0,33	4241	0,99	3171	26000					
	0,34	4138	1,01	3077	26000					
	0,36	3861	1,09	2906	26000					
	0,37	3778	1,11	2828	26000					
	0,40	3525	1,19	2616	26000					
	0,41	3456	1,21	2552	26000					
	0,44	3168	1,32	2378	26000					
	0,47	2992	1,12	2260	26000	IRAM IRFM	92 IR 63 / 63 M 4a		159 160	175 176
	0,50	2792	1,20	2125	26000					
	0,53	2636	1,27	2004	26000					
	0,57	2460	1,36	1864	26000					
	0,60	2343	1,43	1771	26000					
	0,64	2186	1,53	1660	26000					
	0,67	2096	1,59	1586	26000					
	0,72	1956	1,71	1475	26000					
	0,74	1886	1,77	1436	26000					
	0,80	1760	1,90	1328	26000					
	0,88	1592	2,10	1207	26000					
	0,99	1409	2,40	1073	26000					
	1,10	1315	2,50	966	26000					
	1,20	1201	2,80	885	26000					
	1,30	1098	3,80	817	26000					
	0,47	2930	0,90	2226	18000	IRAM IRFM	83 IR 63 / 63 M 4a		157 158	90 91
	0,52	2659	0,99	2012	18000					
	0,63	2205	1,12	1661	18000					
	0,70	2013	1,22	1495	18000					
	0,76	1840	1,34	1377	18000					
	0,79	1779	1,43	1345	18000	IRAM IRFM	82 IR 63 / 63 M 4a		157 158	86 87
	0,88	1580	1,61	1207	18000					
	1,0	1418	1,69	1084	18000					
	1,1	1278	1,88	966	18000					
	1,2	1157	2,00	885	18000					
	1,3	1050	2,20	817	18000					
	1,4	984	2,00	759	18000					
	1,6	887	2,40	664	18000					
	1,7	803	2,60	625	18000					
	2,1	663	3,00	506	18000					
	2,3	604	3,20	462	18000	IRAM IRFM	73 IR 52 / 63 M 4a		155 156	49 50
	1	1375	0,94	1062	12100					
	1,1	1223	1,05	966	12100					
	1,2	1095	1,18	885	12100					
	1,3	1079	1,19	817	12100					
	1,4	966	1,33	759	12100					
	1,5	894	1,44	708	12100					
	1,7	801	1,44	625	12100					
	1,8	789	1,44	590	12100					
	1,9	702	1,84	559	12100					
	2	697	1,85	531	12100					
	2,2	627	2,00	483	12100					

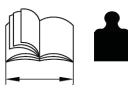


P ₁	n ₂	i	S _f	M ₂	F _{Q/2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]	kg		
0,12 0,16	2,4	563	2,30	443	12100	IRAM IRFM	73 IR 52 / 63 M 4a	155 49 156 50
	2,5	553	2,30	425	12100			
	2,6	535	2,30	409	12100			
	3	469	2,60	354	12100			
	3,3	419	2,90	322	12100			
	3,4	414	2,90	312	12100			
	3,7	376	3,20	287	12100			
	3,8	370	3,30	280	12100			
	1,5	921	0,78	708	10100	IRAM IRFM	721 IR 53 / 63 M 4a	153 49 154 47
	1,7	824	0,87	625	10100			
	1,9	742	0,97	559	10100			
	2,1	675	1,07	506	10100			
	2,3	604	1,56	462	10100			
	2,6	533	1,77	409	10100			
	2,8	491	1,88	379	10100			
	2,9	480	1,95	366	10100			
	3,3	423	2,20	332	10100			
	3,6	390	2,30	295	10100			
	4,0	344	2,60	266	10100			
	4,5	306	3,00	236	10100			
	1,7	836	0,86	625	10100	IRAM IRFM	731 IR 52 / 63 M 4a	153 50 154 48
	1,9	749	0,96	559	10100			
	2,0	674	1,06	531	10100			
	2,3	600	1,56	462	10100			
	2,6	530	1,77	409	10100			
	3,0	468	2,00	354	10100			
	3,4	416	2,20	313	10100			
	3,7	372	2,50	287	10100			
	4,2	333	2,80	253	10100			
	4,6	300	2,90	231	10100			
	1,8	777	0,84	590	7300	IRAM IRFM	63 IR 52 / 63 M 4a	151 25 152 26
	2,0	704	0,93	531	7300			
	2,3	622	1,04	462	7300			
	2,5	566	1,15	425	7300			
	2,9	475	1,37	366	7300			
	3,1	449	1,45	343	7300			
	3,5	397	1,64	304	7300			
	3,7	379	1,72	287	7300			
	4,3	323	2,00	247	7300			
	4,9	286	2,20	217	7300			
	5,1	273	2,40	208	7300			
	5,8	242	2,60	183	7300			
	6,5	215	3,00	163	7300			
	6	231	2,30	180	7300	IRAM IRFM	62 IR 52 / 63 M 4a	151 26 152 27
	6,9	203	2,60	156	7300			
	7,6	184	2,70	142	7300			
	8,6	162	3,00	125	7300			
	9,5	148	3,30	114	7300			
	11	134	3,60	103	7300			
	3,7	377	0,75	287	4250	IRAM IRFM	53 IR 42 / 63 M 4a	149 24 150 25
	4,2	333	0,84	253	4250			
	4,6	303	0,93	231	4250			



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo	
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte	Typ	
[kW] Hp	[r.p.m]			[Nm]	[N]		kg
0,12 0,16	5,2	268	1,05	204	4250	IRAM IRFM 53 IR 42 / 63 M 4a	149 24 150 25
	5,9	237	1,19	180	4250		
	6,5	216	1,30	163	4250		
	7,3	192	1,47	146	4250		
	7,5	188	1,49	142	4250		
	8,3	168	1,67	128	4250		
	9,2	152	1,85	115	4250		
	10	136	1,99	106	4250		
	11	123	2,30	97	4250		
	13	111	2,50	82	4250		
	14	100	2,80	76	4250		
	13	105,66	2,30	84	5350	IRAM IRFM IRAFM 53 / 63 M 4a	119 15 120 15 121 17
	16	88,98	2,77	68	5150		
	18	77,16	3,10	61	5150		
	21	67,60	3,30	52	5150		
	17	81,366	1,27	64	2270		
	20	70,053	1,48	55	2270		
	23	60,896	1,70	48	2270		
	26	53,331	1,94	42	2270		
	30	46,977	2,20	37	2270		
	33	41,849	2,50	33	2270		
	38	36,378	2,90	29	2120	IRAM IRFM IRAFM 43 / 63 M 4a	116 14 117 15 118 15
	44	31,859	3,20	25	2120		
	50	28,063	3,70	22	2000		
	53	26,193	4,00	21	2000		
	56	24,829	4,20	20	2000		
	62	22,615	4,40	18	1940		
	66	21,108	4,80	17	1940		
	70	20,009	5,20	16	1940		
	75	18,593	5,50	15	1940		
	79	17,763	5,80	14	1900		
	85	16,450	6,20	13	1900	IRAM IRFM IRAFM 42 / 63 M 4a	116 14 117 15 118 15
	89	15,806	6,40	12	1850		
	96	14,604	7,10	11	1850		
	99	14,087	7,50	11	1850		
	108	12,995	7,90	10	1750		
	121	11,581	8,90	9	1700		
	125	11,242	5,40	9	1650		
	142	9,845	6,00	8	1600		
	161	8,672	6,80	7	1500		
	182	7,673	7,90	6	1450		
	204	6,872	11,4	5	1450	IRAM IRFM IRAFM 42 / 63 M 4a	116 14 117 15 118 15
	230	6,080	12,8	5	1450		
	253	5,538	13,7	4	1360		
	259	5,398	14,2	4	1300		
	286	4,900	15,1	4	1250		
	291	4,803	16,0	4	1200		
	322	4,350	16,9	3	1100		
	327	4,280	17,8	3	1100		
	362	3,780	19,2	3	1100		
	406	3,449	21,5	3	1080		



P ₁	n ₂	i	S _f	M ₂	F _{Qv2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte	Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]			kg
0,18 0,25	0,11	6466,41	0,77	14268	73000	IRAM IRFM	151 IR 63 / 80 M 8a	165 494 165 492
	0,16	4256,64	1,20	9809	73000			
	0,19	3660,46	1,50	8260	73000			
	0,24	2858,32	1,80	6539	73000			
	0,33	2144,03	2,27	4756	73000			
	0,34	2076,56	2,50	4616	73000			
	0,54	1298,44	4,20	2906	73000			
	0,53	2636	0,85	3007	26000	IRAM IRFM	92 IR 63 / 63 M 4b	159 175
	0,57	2460	0,91	2796	26000			
	0,60	2343	0,95	2656	26000			
	0,64	2186	1,02	2490	26000			
	0,67	2096	1,06	2378	26000			
	0,72	1956	1,14	2213	26000			
	0,74	1886	1,18	2153	26000			
	0,80	1760	1,27	1992	26000			
	0,88	1592	1,40	1811	26000			
	0,99	1409	1,60	1610	26000			
	1,1	1315	1,67	1449	26000			
	1,2	1201	1,86	1328	26000			
	1,3	1098	2,50	1226	26000			
	1,4	993	2,70	1138	26000			
	0,79	1779	0,95	2018	18100	IRAM IRFM	82 IR 63 / 63 M 4b	157 86 158 87
	0,88	1580	1,07	1811	18100			
	1,0	1418	1,12	1626	18100			
	1,1	1278	1,25	1449	18000			
	1,2	1157	1,33	1328	18000			
	1,3	1050	1,46	1226	18000			
	1,4	984	1,33	1138	18000			
	1,6	887	1,60	996	18000			
	1,7	803	1,73	937	18000			
	2,1	663	2,00	759	18000			
	2,3	604	2,10	693	18000			
	1,2	1095	0,79	1328	12100	IRAM IRFM	73 IR 52 / 63 M 4b	155 49 156 50
	1,3	1079	0,79	1226	12100			
	1,4	966	0,89	1138	12100			
	1,5	894	0,96	1062	12100			
	1,7	801	0,96	937	12100			
	1,8	789	0,96	885	12100			
	1,9	702	1,23	839	12100			
	2,0	697	1,23	797	12100			
	2,2	627	1,33	724	12100			
	2,4	563	1,53	665	12100			
	2,5	553	1,53	637	12100			
	2,6	535	1,53	613	12100			
	3,0	469	1,73	531	12100			
	3,3	419	1,93	483	12100			
	3,4	414	1,93	469	12100			
	3,7	376	2,10	431	12100			
	3,8	370	2,20	419	12100			
	4,2	332	2,40	379	12100			
	5,0	276	2,60	319	12100			



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
0,18	5,1	270	2,70	312	12100	IRAM IRFM	73 IR 52 / 63 M 4b	155	49
	5,6	250	2,90	285	12100			156	50
0,25	5,7	244	2,90	280	12100	IRAM IRFM	721 IR 53 / 63 M 4b	153	49
	2,3	604	1,04	693	10100			154	47
	2,6	533	1,18	613	10100	IRAM IRFM	731 IR 52 / 63 M 4b	153	50
	2,8	491	1,25	569	10100			154	48
	2,9	480	1,30	550	10100	IRAM IRFM	63 IR 52 / 63 M 4b	151	25
	3,3	423	1,46	483	10100			152	26
	3,6	390	1,53	443	10100	IRAM IRFM	53 IR 42 / 63 M 4b	150	25
	4,0	344	1,73	398	10100			131	37
	4,5	306	2,00	354	10100	IRAM IRFM	73 / 71 M 6a	133	43
	2,3	600	1,04	693	10100			128	41
	2,6	530	1,18	613	10100	IRAM IRFM	731 / 80 M 8a	129	44
	3,0	468	1,33	531	10100			130	47
	3,4	416	1,46	469	10100	IRAM IRFM	73 / 71 M 6a	133	43
	3,7	372	1,67	431	10100			128	41
	4,2	333	1,86	379	10100	IRAM IRFM	731 / 80 M 8a	129	44
	4,6	300	1,94	346	10100			130	47
	2,9	475	0,91	549	7300	IRAM IRFM	63 IR 52 / 63 M 4b	151	25
	3,1	449	0,97	514	7300			152	26
	3,5	397	1,09	455	7300	IRAM IRFM	53 IR 42 / 63 M 4b	150	25
	3,7	379	1,15	431	7300			131	37
	4,3	323	1,33	371	7300	IRAM IRFM	73 / 71 M 6a	133	43
	4,9	286	1,47	325	7300			128	41
	5,1	273	1,60	312	7300	IRAM IRFM	731 / 80 M 8a	129	44
	5,8	242	1,73	275	7300			130	47
	6,5	215	2,00	245	7300	IRAM IRFM	73 / 71 M 6a	133	43
	7,3	191	2,30	218	7300			128	41
	6	231	1,53	270	7300	IRAM IRFM	53 IR 42 / 63 M 4b	150	25
	6,9	203	1,73	234	7300			131	37
	7,6	184	1,80	213	7300	IRAM IRFM	73 / 71 M 6a	133	43
	8,6	162	2,00	188	7300			128	41
	9,5	148	2,20	170	7300	IRAM IRFM	731 / 80 M 8a	129	44
	11	134	2,40	154	7300			130	47
	5,9	237	0,79	270	4250	IRAM IRFM	53 IR 42 / 63 M 4b	150	25
	6,5	216	0,87	245	4250			131	37
	7,3	192	0,98	218	4250	IRAM IRFM	73 / 71 M 6a	133	43
	7,5	188	0,99	213	4250			128	41
	8,3	168	1,11	192	4250	IRAM IRFM	731 / 80 M 8a	129	44
	9,2	152	1,23	173	4250			130	47
	10	136	1,33	159	4250	IRAM IRFM	73 / 71 M 6a	133	43
	11	123	1,53	145	4250			128	41
	13	111	1,67	123	4250	IRAM IRFM	731 / 80 M 8a	129	44
	14	100	1,87	114	4250			130	47
	6	154,46	3,10	274	12100	IRAM IRFM IRAFM	73 / 71 M 6a	133	43
	4,6	152,090	1,46	357	10100			128	41
	5,2	134,933	1,65	316	10100	IRAM IRFM IRAFM	731 / 80 M 8a	129	44
								130	47



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
0,18 0,25	5,9	152,090	1,88	278	10100	IRAM	731 / 71 M 6a	128	37
	6,6	134,933	2,10	249	10100	IRFM		129	40
	7,7	116,652	2,50	213	10100	IRAFM		130	43
	8,9	100,847	2,80	185	10100				
	7	127,94	1,80	235	7300	IRAPM	63 / 71 M 6a	178	21
	7,5	119,40	1,90	219	7300	IRFPM		179	21
						IRAFPM		180	23
	9,5	96,27	2,30	177	7300	IRAM	63 / 71 M 6a	125	20
	10	87,81	2,60	164	7300	IRFM		126	20
						IRAFM		127	22
	7	127,94	1,80	235	7300	IRAPM	631 / 71 M 6a	175	21
	7,5	119,40	1,90	219	7300	IRFPM		176	21
						IRAFPM		177	23
	9,5	96,27	2,30	177	7300	IRAM	631 / 71 M 6a	125	20
	10	87,81	2,60	164	7300	IRFM		126	20
						IRAFM		127	22
	11	127,94	2,70	149	7300	IRAPM	63 / 63 M 4b	178	19
	12	119,40	2,90	140	7300	IRFPM		179	19
						IRAFPM		180	21
	11	127,94	2,70	149	7300	IRAPM	631 / 63 M 4b	175	19
	12	119,40	2,90	140	7300	IRFPM		176	19
						IRAFPM		177	21
	8,5	105,66	0,99	193	5000	IRAM	53 / 71 M 6a		
	10	88,98	1,18	164	5000	IRFM		120	16
	12	77,16	1,33	140	5000	IRAFM			
	13	105,66	1,53	126	5000		53 / 63 M 4b		
	16	88,98	1,85	103	4900	IRAM		119	15
	18	77,16	2,07	91	4900	IRFM		120	15
	21	67,60	2,20	78	4750	IRAFM		121	17
	26	54,81	2,80	63	4750				
	29	48,41	3,40	57	4750				
	17	53,331	0,83	97	2270	IRAM	43 / 71 M 6a	116	15
	19	46,977	0,95	86	2270	IRFM		117	16
						IRAFM		118	16
	17	81,366	0,85	97	2250		43 / 63 M 4b		
	20	70,053	0,99	82	2250				
	23	60,896	1,13	71	2220				
	26	53,331	1,29	63	2220				
	30	46,977	1,47	55	2220				
	33	41,849	1,67	50	2090				
	38	36,378	1,93	43	2090				
	44	31,859	2,10	37	2000	IRAM		116	14
	50	28,063	2,50	33	2000	IRFM		117	15
	53	26,193	2,70	31	1960	IRAFM		118	15
	56	24,829	2,80	29	1900				
	62	22,615	2,90	26	1900				
	66	21,108	3,20	25	1900				
	70	20,009	3,50	23	1900				
	75	18,593	3,70	22	1900				
	79	17,763	3,90	21	1860				



P ₁	n ₂	i	S _f	M ₂	F _{Qv2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type		
Leistung	Abtriebswelle	Übersetzung	Betriebsfaktor	Abtriebswelle	Querkräfte	Typ		
	Drehzahlen			Drehmomente				
[kW]								
Hp	[r.p.m]			[Nm]	[N]			kg
0,18 0,25	85	16,450	4,20	19	1860	IRAM IRFM IRAFM	43 / 63 M 4b	
	89	15,806	4,30	18	1800			116 14
	96	14,604	4,70	17	1800			117 15
	99	14,087	5,00	17	1800			118 15
	108	12,995	5,30	15	1720			
	121	11,581	6,00	14	1700			
	125	11,242	3,60	13	1610	IRAM IRFM IRAFM	42 / 63 M 4b	
	142	9,845	4,00	12	1550			
	161	8,672	4,60	10	1460			
	182	7,673	5,30	9	1400			
	204	6,872	7,60	8	1400			
	230	6,080	8,50	7	1400			116 14
	253	5,538	9,10	7	1320			117 15
	259	5,398	9,50	6	1250			118 15
	286	4,900	10,00	6	1200			
	291	4,803	10,70	6	1150			
	322	4,350	11,30	5	1060			
	327	4,280	11,90	5	1060			
	362	3,780	12,80	5	1050			
	406	3,449	14,30	4	1020			
0,25 0,34	0,15	4766,77	0,76	14532	73000	IRAM IRFM	151 IR 63 / 80 M 8b	
	0,19	3660,46	1,07	11473	73000			165 495
	0,33	2144,03	1,6	6605	73000			165 533
	0,40	1743,35	1,97	5449	73000			
	0,58	1205,72	3,10	3758	73000			
	0,19	7333	0,85	11476	55000	IRAM IRFM	123 IR 73 / 71 M 4a	
	0,21	6617	0,94	10383	55000			
	0,22	6286	0,96	9911	55000			
	0,25	5578	1,10	8722	55000			163 432
	0,28	4983	1,20	7788	55000			164 434
	0,31	4476	1,34	7034	55000			
	0,34	4039	1,49	6413	55000			
	0,38	3659	1,63	5738	55000			
	0,42	3324	1,82	5192	55000			
	0,34	4059	1,43	6511	55000	IRAM IRFM	122 IR 73 / 71 M 4a	
	0,38	3671	1,58	5826	55000			163 427
	0,45	3066	1,87	4919	55000			164 429
	0,52	2698	2,10	4257	55000			
	0,60	2333	2,50	3690	55000			
	0,29	4790	0,82	7519	34000	IRAM IRFM	103 IR 73 / 71 M 4a	
	0,33	4230	0,90	6608	34000			
	0,37	3760	0,94	5893	34000			161 335
	0,41	3359	0,96	5318	34000			162 337
	0,46	3014	1,05	4740	34000			
	0,51	2713	1,15	4276	34000			
	0,57	2448	1,35	3825	34000			
	0,51	2733	0,96	4341	34000	IRAM IRFM	102 IR 73 / 71 M 4a	
	0,58	2413	1,06	3817	34000			161 325
	0,65	2145	1,17	3406	34000			162 327
	0,73	1916	1,31	3033	34000			
	0,85	1635	1,59	2604	34000			

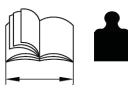


P ₁	n ₂	i	S _f	M ₂	F _{Q1/2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]			kg
0,25 0,34	0,96	1460	1,74	2306	34000	IRAM IRFM	102 IR 73 / 71 M 4a	162 327
	1,0	1311	1,90	2214	34000			
	1,2	1180	2,40	1845	34000			
	1,3	1103	2,60	1703	34000			
	1,4	986	2,60	1581	34000			
	1,6	884	2,60	1384	34000			
	1,8	796	2,60	1230	34000			
	1,9	718	2,60	1165	34000			
	2,1	650	2,60	1054	34000			
	2,4	575	2,60	922	34000			
	0,74	1886	0,85	2991	26000			
	0,80	1760	0,91	2767	26000			
	0,88	1592	1,00	2515	26000			
	0,99	1409	1,15	2236	26000			
	1,1	1315	1,20	2012	26000			
	1,2	1201	1,34	1844	26000			
	1,3	1098	1,82	1702	26000			
	1,4	993	1,96	1581	26000			
	1,5	901	1,96	1475	26000			
1,7	821	1,96	1302	26000				
1,9	749	1,96	1165	26000				
2,0	685	1,96	1107	26000				
1,9	725	2,80	1165	26000	IRAM IRFM	93 IR 62 / 71 M 4a	159 181	
2,1	648	3,10	1054	26000				
1,2	1162	0,88	1844	18100	IRAM IRFM	82 IR 63 / 71 M 4a	157 87 158 88	
1,3	1042	0,98	1702	18100				
1,5	940	1,09	1475	18100				
1,6	851	1,20	1383	18100				
1,8	772	1,33	1230	18100				
1,9	724	1,32	1165	18100				
2,1	653	1,51	1054	18100				
2,4	590	1,62	922	18100				
2,6	536	1,85	851	18100				
2,8	488	1,95	790	18100				
3,1	444	2,00	714	18100				
3,4	406	2,20	651	18100				
3,5	394	2,40	632	18100				
3,9	359	2,50	567	18100				
4,4	315	3,10	503	18100				
4,8	286	3,30	461	18100				
5,3	261	3,50	418	18100				
1,9	702	0,88	1165	12100	IRAM IRFM	73 IR 52 / 71 M 4a	155 53 156 54	
2,0	697	0,88	1107	12100				
2,2	627	0,95	1006	12100				
2,4	563	1,10	922	12100				
2,5	553	1,10	885	12100				
2,6	535	1,10	851	12100				
3,0	469	1,25	738	12100				
3,3	419	1,39	671	12100				
3,4	414	1,39	651	12100				
3,7	376	1,54	598	12100				
3,8	370	1,58	582	12100				



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
0,25	4,2	332	1,73	527	12100				
	5,0	276	1,87	443	12100				
0,34	5,1	270	1,92	434	12100	IRAM IRFM	73 IR 52 / 71 M 4a	155	53
	5,6	250	2,10	395	12100			156	54
	5,7	244	2,10	388	12100				
	6,0	232	2,20	374	12100				
	6,8	206	2,40	330	12100			155	53
	2,6	533	0,85	851	10100				
	2,8	491	0,90	791	10100				
	2,9	480	0,94	763	10100				
	3,3	423	1,05	671	10100				
	3,6	390	1,10	615	10100				
	4,0	344	1,25	553	10100				
	4,5	306	1,44	492	10100	IRAM IRFM	721 IR 53 / 71 M 4a	153	51
	5,1	274	1,51	434	10100			154	49
	5,7	246	1,65	388	10100				
	6,3	221	1,87	351	10100				
	7,0	199	2,00	316	10100				
	7,8	180	2,20	284	10100				
	8,6	163	2,50	257	10100				
	9,5	148	2,70	233	10100				
	2,6	530	0,85	851	10100				
	3,0	468	0,96	738	10100				
	3,4	416	1,05	651	10100				
	3,7	372	1,20	598	10100				
	4,2	333	1,34	527	10100				
	4,6	300	1,40	481	10100	IRAM IRFM	731 IR 52 / 71 M 4a	153	52
	5,2	267	1,58	426	10100			154	50
	5,9	238	1,77	375	10100				
	6,5	214	1,98	341	10100				
	6,8	201	2,10	326	10100				
	7,8	180	2,30	284	10100				
	8,6	162	2,60	257	10100				
	9,5	146	2,90	233	10100				
	4,3	323	0,96	515	7300				
	4,9	286	1,05	452	7300				
	5,1	273	1,15	434	7300				
	5,8	242	1,25	382	7300	IRAM IRFM	63 IR 52 / 71 M 4a	151	28
	6,5	215	1,44	340	7300			152	29
	7,3	191	1,63	303	7300				
	8,3	170	1,84	267	7300				
	9,2	151	2,00	241	7300				
	10	136	2,30	221	7300				
	6	231	1,10	374	7300				
	6,9	203	1,25	326	7300	IRAM IRFM	62 IR 52 / 71 M 4a	151	28
	7,6	184	1,30	296	7300				
	8,6	162	1,44	261	7300				
	9,5	148	1,58	236	7300				
	11	134	1,73	214	7300				
	8,3	168	0,80	267	4250	IRAM IRFM	53 IR 42 / 71 M 4a	149	26
	9,2	152	0,89	241	4250			150	26
	10	136	0,95	221	4250				



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
0,25	11	123	1,10	201	4250	IRAM	53 IR 42 / 71 M 4a	149	26
	13	111	1,20	170	4250	IRFM		150	26
0,34	14	100	1,34	158	4250				
	2,4	293,461	2,90	951	26000	IRAPM	93 / 80 M 8b		
	2,6	273,733	3,00	878	26000	IRFPM			
	2,9	240,506	3,50	787	26000	IRAFPM		192	168
	2,8	250,50	1,80	814	18100	IRAM	83 / 80 M 8b	134	81
	3,1	221,16	2,00	736	18100	IRFM		135	80
	3,3	208,58	2,30	691	18100	IRAFM		136	87
	6	154,46	2,23	380	12100	IRAM	73 / 71 M 6b	131	88
	6,5	133,53	2,59	351	12100	IRFM		132	41
	8,5	103,60	3,24	268	12100	IRAFM		133	44
	9	154,46	3,40	253	12100	IRAM	73 / 71 M 4a	131	37
						IRFM		132	40
						IRAFM		133	43
	4,6	152,090	1,05	496	10100	IRAM	731 / 80 M 8b	128	43
	5,2	134,933	1,19	439	10100	IRFM		129	46
						IRAFM		130	49
	5,9	152,090	1,35	387	10100	IRAM	731 / 71 M 6b	128	38
	6,6	134,933	1,51	346	10100	IRFM		129	41
	7,7	116,652	1,80	296	10100	IRAFM		130	44
	8,9	100,847	2,00	256	10100				
	9	152,090	2,10	248	10100	IRAM	731 / 71 M 4a		
	10	134,933	2,30	228	10100	IRFM			
	12	116,652	2,70	190	10100	IRAFM		130	43
	14	100,847	3,10	163	10100				
	16	88,933	3,50	143	10100				
	7	127,94	1,30	326	7300	IRAPM	63 / 71 M 6b	178	21
	7,5	119,40	1,37	304	7300	IRFPM		179	21
						IRAFPM		180	23
	9,5	96,27	1,65	240	7300	IRAM	63 / 71 M 6b	125	21
	10	87,81	1,86	228	7300	IRFM		126	21
						IRAFM		127	23
	7	127,94	1,30	326	7300	IRAPM	631 / 71 M 6b	175	21
	7,5	119,40	1,37	304	7300	IRFPM		176	21
						IRAFPM		177	23
	9,5	96,27	1,65	240	7300	IRAM	631 / 71 M 6b	125	21
	10	87,81	1,86	228	7300	IRFM		126	21
						IRAFM		127	23
	11	127,94	1,94	207	7300	IRAPM	63 / 71 M 4a	178	20
	12	119,40	2,00	198	7300	IRFPM		179	20
						IRAFPM		180	22
	15	96,27	2,60	157	7300	IRAM	63 / 71 M 4a	125	20
	16	87,81	2,80	147	7300	IRFM		126	20
	17	83,37	3,00	134	7300	IRAFM		127	22
	20	70,97	3,80	114	7300				



P ₁	n ₂	i	S _f	M ₂	F _{QV2}				
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carda Radial	Tipo			
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type			
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte	Typ			
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
0,25 0,34	11	127,94	1,94	207	7300	IRAPM	631 / 71 M 4a	175	20
	12	119,40	2,00	198	7300	IRFPM		176	20
						IRAFPM		177	22
	15	96,27	2,60	157	7300	IRAM	631 / 71 M 4a	125	20
	16	87,81	2,80	147	7300	IRFM		126	20
	17	83,37	3,00	134	7300	IRAFM		127	22
	20	70,97	3,80	114	7300				
	13	105,66	1,10	175	4550				
	16	88,98	1,33	143	4550				
	18	77,16	1,49	127	4500				
	21	67,60	1,58	109	4400	IRAM	53 / 71 M 4a	119	16
	26	54,81	2,00	88	4400	IRFM		120	16
	29	48,41	2,40	79	4300	IRAFM		121	18
	32	43,98	2,80	71	4150				
	36	39,09	3,10	63	4150				
	40	34,93	3,40	57	4150				
	23	60,896	0,82	99	2130				
	26	53,331	0,93	88	2130				
	30	46,977	1,06	76	2130				
	38	36,378	1,39	60	2010				
	44	31,859	1,54	52	1920				
	50	28,063	1,78	46	1920				
	53	26,193	1,92	43	1880				
	56	24,829	2,00	41	1840				
	62	22,615	2,10	37	1830	IRAM	43 / 71 M 4a	116	15
	66	21,108	2,30	35	1820	IRFM		117	16
	70	20,009	2,50	33	1810	IRAFM		118	16
	75	18,593	2,70	30	1810				
	79	17,763	2,80	29	1780				
	85	16,450	3,00	27	1770				
	89	15,806	3,10	26	1720				
	96	14,604	3,40	24	1720				
	99	14,087	3,60	23	1720				
	108	12,995	3,80	21	1660				
	121	11,581	4,30	19	1630				
	125	11,242	2,60	19	1550				
	142	9,845	2,90	16	1490				
	161	8,672	3,30	14	1400				
	182	7,673	3,80	13	1340				
	204	6,872	5,50	11	1340				
	230	6,080	6,10	10	1340				
	253	5,538	6,60	9	1260	IRAM	42 / 71 M 4a	116	15
	259	5,398	6,80	9	1190	IRFM		117	16
	286	4,900	7,20	8	1140	IRAFM		118	16
	291	4,803	7,70	8	1090				
	322	4,350	8,10	7	1000				
	327	4,280	8,50	7	1000				
	362	3,780	9,20	6	950				
	406	3,449	10,30	6	900				
0,37 0,50	0,22	4099,41	0,78	14664	73000	IRAM	151 IR 63 / 80 M 6a	165	494
	0,36	2552,42	1,31	8961	73000	IRFM		165	491
	0,51	1790,46	1,85	6326	73000				



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
0,37 0,50	0,74	1228,05	2,45	4360	73000	IRAM	151 IR 63 / 80 M 6a	165	494
	0,90	1016,50	3,50	3585	73000	IRFM		165	491
	0,28	4983	0,81	11526	55000	IRAM IRFM	123 IR 73 / 71 M 4b	163	433
	0,31	4476	0,91	10410	55000			164	435
	0,34	4039	1,00	9492	55000				
	0,38	3659	1,10	8493	55000				
	0,42	3324	1,23	7684	55000				
	0,34	4059	0,96	9636	55000	IRAM IRFM	122 IR 73 / 71 M 4b	163	428
	0,38	3671	1,07	8622	55000				
	0,45	3066	1,26	7281	55000				
	0,52	2698	1,41	6301	55000				
	0,60	2333	1,70	5461	55000				
	0,68	2070	1,90	4818	55000				
	0,75	1849	2,10	4368	55000				
	0,84	1661	2,30	3900	55000				
	0,57	2448	0,91	5662	34000	IRAM IRFM	103 IR 73 / 71 M 4b	161	336
								162	338
	0,65	2145	0,79	5040	34000	IRAM IRFM	102 IR 73 / 71 M 4b	161	326
	0,73	1916	0,89	4488	34000			162	328
	0,85	1635	1,07	3854	34000				
	0,96	1460	1,18	3413	34000				
	1,0	1311	1,28	3276	34000				
	1,2	1180	1,62	2730	34000				
	1,3	1103	1,75	2520	34000				
	1,4	986	1,75	2340	34000				
	1,6	884	1,75	2048	34000				
	1,8	796	1,75	1820	34000				
	1,9	718	1,75	1724	34000				
	2,1	650	1,75	1560	34000				
	2,4	575	1,75	1365	34000				
	1,2	1201	0,91	2730	26000	IRAM IRFM	92 IR 63 / 71 M 4b	159	176
	1,3	1098	1,23	2520	26000			160	177
	1,4	993	1,33	2340	26000				
	1,5	901	1,33	2184	26000				
	1,7	821	1,33	1927	26000				
	1,9	749	1,33	1724	26000				
	2,0	685	1,33	1638	26000				
	1,9	725	1,89	1724	26000	IRAM IRFM	93 IR 62 / 71 M 4b	159	181
	2,1	648	2,10	1560	26000			160	182
	2,4	538	2,30	1365	26000				
	2,6	527	2,50	1260	26000				
	2,9	479	2,80	1130	26000				
	3,2	436	3,10	1024	26000				
	3,5	398	3,40	936	26000				
	3,8	364	3,70	862	26000				
	4,2	334	4,00	780	26000				
	1,8	772	0,89	1820	18100	IRAM IRFM	82 IR 63 / 71 M 4b	157	88
	1,9	724	0,89	1724	18100			158	89
	2,1	653	1,02	1560	18100				
	2,4	590	1,10	1365	18100				
	2,6	536	1,25	1260	18100				



P ₁	n ₂	i	S _f	M ₂	F _{QV2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]			kg
0,37 0,50	2,8	488	1,32	1170	18100	IRAM IRFM	82 IR 63 / 71 M 4b	157 88 158 89
	3,1	444	1,40	1057	18100			
	3,4	406	1,48	963	18100			
	3,5	394	1,64	936	18100			
	3,9	359	1,73	840	18100			
	4,4	315	2,10	744	18100			
	4,8	286	2,20	682	18100			
	5,3	261	2,30	618	18100			
	3,7	376	1,04	885	12100	IRAM IRFM	73 IR 52 / 71 M 4b	155 51 156 52
	3,8	370	1,07	862	12100			
	4,2	332	1,18	780	12100			
	5	276	1,26	655	12100			
	5,1	270	1,30	642	12100			
	5,6	250	1,39	585	12100			
	5,7	244	1,43	575	12100			
	6	232	1,49	554	12100			
	6,8	206	1,62	489	12100			
	8,7	160	2,50	382	12100			
	4,0	344	0,84	819	10100	IRAM IRFM	721 IR 53 / 71 M 4b	153 51 154 49
	4,5	306	0,97	728	10100			
	5,1	274	1,02	642	10100			
	5,7	246	1,12	575	10100			
	6,3	221	1,26	520	10100			
	7,0	199	1,36	468	10100			
	7,8	180	1,51	420	10100			
	8,6	163	1,70	381	10100			
	9,5	148	1,85	345	10100	IRAM IRFM	731 IR 52 / 71 M 4b	153 52 154 50
	3,7	372	0,81	885	10100			
	4,2	333	0,91	790	10100			
	4,6	300	0,95	712	10100			
	5,2	267	1,06	630	10100			
	5,9	238	1,20	555	10100			
	6,5	214	1,33	504	10100			
	6,8	201	1,41	482	10100			
	7,8	180	1,55	420	10100	IRAM IRFM	53 IR 42 / 71 M 4b	150 27
	8,6	162	1,75	381	10100			
	9,5	146	1,96	345	10100			
	13	111	0,81	260	4250	IRAPM IRFPM IRAFPM	93 / 90 S 8a	190 168 191 169
	14	100	0,91	241	4250			
	2,4	293,46	1,95	1125	26000			
	2,6	273,73	2,00	1023	26000			
	2,9	240,50	2,40	912	26000			
	3	293,46	2,50	1125	26000	IRAPM IRFPM IRAFPM	93 / 80 M 6a	190 160 191 161 192 167
	3,3	273,73	2,60	1023	26000			
	3,7	240,50	3,00	912	26000			
	4,2	213,60	3,50	803	26000			
	2,8	250,50	1,22	1205	18100	IRAM IRFM IRAFM	83 / 90 S 8a	136 90
	3,1	221,16	1,35	1089	18100			
	3,3	208,58	1,57	1023	18100			



P ₁	n ₂	i	S _f	M ₂	F _{Qv2}		Tipo	
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type	
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte			
[kW] Hp	[r.p.m]			[Nm]	[N]			kg
0,37 0,50	3,6	250,50	1,57	937	18100			
	4	221,16	1,78	844	18100	IRAM	83 / 80 M 6a	134
	4,3	208,58	2,00	785	18100	IRFM		135
	4,8	186,71	2,10	703	18100	IRAFM		136
	5,3	168,34	2,30	637	18100			
	6	154,46	1,51	563	12100	IRAM	73 / 80 M 6a	131
	6,5	133,53	1,75	519	12100	IRFM		132
	8,5	103,60	2,19	397	12100	IRAFM		133
	10	91,36	2,77	338	12100			40
	9	154,46	2,30	375	12100	IRAM	73 / 71 M 4b	131
	11	133,53	2,60	322	12100	IRFM		41
	14	103,60	3,37	250	12100	IRAFM		133
	5,9	152,090	0,91	572	10100	IRAM	731 / 80 M 6a	128
	6,6	134,933	1,02	512	10100	IRFM		40
	7,7	116,652	1,21	439	10100	IRAFM		129
	8,9	100,847	1,36	379	10100			43
								46
	9	152,090	1,42	367	10100		731 / 71 M 4b	
	10	134,933	1,59	338	10100	IRAM		
	12	116,652	1,85	281	10100	IRFM		129
	14	100,847	2,10	241	10100	IRAFM		41
	16	88,933	2,40	211	10100			
	7	127,94	0,87	482	7170	IRAPM	63 / 80 M 6a	178
	7,5	119,40	0,92	450	7170	IRFPM		28
						IRAFPM		179
								180
	9,5	96,27	1,11	355	7170	IRAM	63 / 80 M 6a	125
	10	87,81	1,26	338	7170	IRFM		28
						IRAFM		126
								127
	7	127,94	0,87	482	7170	IRAPM	631 / 80 M 6a	175
	7,5	119,40	0,92	450	7170	IRFPM		28
						IRAFPM		176
								177
	9,5	96,27	1,11	355	7170	IRAM	631 / 80 M 6a	125
	10	87,81	1,26	338	7170	IRFM		28
						IRAFM		126
								127
	11	127,94	1,31	307	7170	IRAPM	63 / 71 M 4b	178
	12	119,40	1,41	294	7170	IRFPM		21
						IRAFPM		179
								180
	15	96,27	1,75	233	7170		63 / 71 M 4b	
	16	87,81	1,93	218	7170	IRAM		125
	17	83,37	2,00	199	7170	IRFM		21
	20	70,97	2,60	169	7170	IRAFM		126
	23	61,03	2,80	147	7170			127
	27	51,65	3,80	125	7170			23
	11	127,94	1,31	307	7170	IRAPM	631 / 71 M 4b	175
	12	119,40	1,41	294	7170	IRFPM		21
						IRAFPM		176
								177
	15	96,27	1,75	233	7170	IRAM	631 / 71 M 4b	125
	16	87,81	1,93	218	7170	IRFM		21
	17	83,37	2,00	199	7170	IRAFM		126
								127



P ₁	n ₂	i	S _f	M ₂	F _{Q/2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
0,37 0,50	20	70,97	2,60	169	7170	IRAM	631 / 71 M 4b	125	21
	23	61,03	2,80	147	7170	IRFM		126	21
	27	51,65	3,80	125	7170	IRAFM		127	23
	16	88,98	0,90	211	4250		53 / 71 M 4b		
	18	77,16	1,00	187	4250				
	21	67,60	1,07	161	4200				
	26	54,81	1,36	130	4050				
	29	48,41	1,65	116	4050				
	32	43,98	1,89	105	4050	IRAM		119	17
	36	39,09	2,00	94	4000	IRFM		120	17
	40	34,93	2,30	84	4000	IRAFM		121	19
	45	31,33	2,50	75	4000				
	50	28,21	2,80	67	4000				
	55	25,46	3,00	61	3850				
	61	23,02	3,30	55	3800				
	64	21,88	3,35	53	3800				
	82	17,18	3,50	42	3600				
	93	15,05	4,30	37	3550	IRAM		119	15
	105	13,29	4,80	33	3500	IRFM	52 / 71 M 4b	120	15
	119	11,81	5,40	29	3500	IRAFM		121	17
	133	10,55	5,90	26	3500				
	38	36,378	0,94	89	1880				
	44	31,859	1,04	77	1850				
	50	28,063	1,20	68	1820		43 / 71 M 4b		
	53	26,193	1,30	64	1800				
	56	24,829	1,36	60	1760				
	62	22,615	1,43	54	1740				
	66	21,108	1,55	51	1700	IRAM		116	16
	70	20,009	1,70	48	1650	IRFM		117	17
	75	18,593	1,80	45	1600	IRAFM		118	17
	79	17,763	1,90	43	1600				
	85	16,450	2,00	40	1550				
	89	15,806	2,10	38	1500				
	96	14,604	2,30	35	1500				
	99	14,087	2,40	34	1490				
	108	12,995	2,60	31	1450				
	121	11,581	2,90	28	1430				
	125	11,242	1,75	27	1400		42 / 71 M 4b		
	142	9,845	1,96	24	1350				
	161	8,672	2,20	21	1300				
	182	7,673	2,60	19	1250				
	204	6,872	3,70	17	1200				
	230	6,080	4,10	15	1150				
	253	5,538	4,40	14	1100	IRAM		116	16
	259	5,398	4,60	13	1080	IRFM		117	17
	286	4,900	4,90	12	1030	IRAFM		118	17
	291	4,803	5,20	12	970				
	322	4,350	5,50	11	950				
	327	4,280	5,80	10	900				
	362	3,780	6,20	9	900				
	406	3,449	6,90	8	850				



P ₁	n ₂	i	S _f	M ₂	F _{Qv2}		Tipo	
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type	
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte			
[kW] Hp	[r.p.m]			[Nm]	[N]			kg
0,55 0,75	0,33	4099,41	0,79	14532	73000	IRAM IRFM	151 IR 63 / 80 M 4a	165 165 491
	0,44	3097,86	0,98	10899	73000			
	0,57	2390,20	1,18	8413	73000			
	0,76	1790,46	1,70	6310	73000			
	0,90	1509,47	2,02	5328	73000			
	1,06	1289,63	2,36	4524	73000			
	1,30	1049,16	2,90	3689	73000			
	1,57	868,43	3,95	3054	73000			
	0,49	2829	0,91	9939	55000	IRAM IRFM	123 IR 72 / 80 M 4a	163 433 164 435
	0,55	2517	1,05	8855	55000			
	0,62	2260	1,14	7855	55000			
	0,68	2044	1,27	7162	55000			
	0,85	1657	1,68	5730	55000			
	0,92	1511	1,86	5294	55000			
	1,0	1357	2,10	4870	55000			
	1,1	1227	2,30	4427	55000			
	1,4	1025	2,80	3479	55000			
	0,52	2698	0,95	9366	55000	IRAM IRFM	122 IR 73 / 80 M 4a	163 430 164
	0,60	2333	1,15	8117	55000			
	0,68	2070	1,27	7162	55000			
	0,75	1849	1,41	6494	55000			
	0,84	1661	1,57	5798	55000			
	0,91	1535	1,60	5352	55000			
	1,2	1173	1,09	4059	34000	IRAM IRFM	103 IR 72 / 80 M 4a	161 326 162 328
	1,3	1046	1,20	3746	34000			
	1,5	923	1,32	3247	34000			
	1,7	821	1,46	2865	34000			
	1,9	733	1,60	2563	34000			
	2,1	658	1,75	2319	34000			
	2,3	592	1,90	2117	34000			
	2,6	535	2,20	1873	34000			
	2,9	485	2,80	1679	34000			
	0,96	1460	0,79	5073	34000	IRAM IRFM	102 IR 73 / 80 M 4a	161 328 162
	1,0	1311	0,86	4870	34000			
	1,2	1180	1,09	4059	34000			
	1,3	1103	1,18	3746	34000			
	1,4	986	1,18	3479	34000			
	1,6	884	1,18	3044	34000			
	1,8	796	1,18	2706	34000			
	1,9	718	1,18	2563	34000			
	2,1	650	1,18	2319	34000			
	2,4	575	1,18	2029	34000			
	1,9	725	1,27	2563	26000	IRAM IRFM	93 IR 62 / 80 M 4a	159 184 160 185
	2,1	648	1,41	2319	26000			
	2,4	538	1,55	2029	26000			
	2,6	527	1,73	1873	26000			
	2,9	479	1,91	1679	26000			
	3,2	436	2,10	1522	26000			
	3,5	398	2,30	1391	26000			
	3,8	364	2,50	1281	26000			
	4,2	334	2,70	1159	26000			



P ₁	n ₂	i	S _f	M ₂	F _{Q1/2}				
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo			
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type			
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ			
[kW] Hp	[r.p.m]			[Nm]	[N]	kg			
0,55 0,75	4,4	315	2,30	1123	26000	IRAM IRFM	92 IR 62 / 80 M 4a	159	180
	5	278	2,60	989	26000			160	
	5,7	247	2,90	867	26000				
	6,3	221	3,30	785	26000				
	2,6	536	0,84	1873	17350	IRAM IRFM	82 IR 63 / 80 M 4a	157	90
	2,8	488	0,89	1739	17350			158	
	3,1	444	0,94	1571	17350				
	3,4	406	0,99	1432	17300				
	3,5	394	1,10	1391	17300				
	3,9	359	1,16	1248	17350				
4,4	315	1,42	1107	17350					
4,8	286	1,51	1014	17350					
5,3	261	1,60	919	17300					
5,8	240	1,92	839	17300					
6,4	218	2,00	761	17300					
7,7	181	2,30	632	17300					
	6,0	232	1,00	812	11500	IRAM IRFM	72 IR 52 / 80 M 4a	155	53
	6,8	206	1,09	716	11500			156	
	8,7	160	1,73	560	11500			54	
	6,3	221	0,85	773	9500	IRAM IRFM	721 IR 53 / 80 M 4a	153	53
	7,0	199	0,91	696	9500			154	
	7,8	180	1,01	624	9500			51	
	8,6	163	1,15	566	9500				
	9,5	148	1,24	513	9500				
	6,8	201	0,95	716	9500	IRAM IRFM	731 IR 52 / 80 M 4a	153	52
	7,8	180	1,04	624	9500			154	
	8,6	162	1,18	566	9500				
	9,5	146	1,32	513	9500				
	2,4	293,46	1,31	2090	25000	IRAPM	93 / 90 L 8a	190	171
	2,6	273,73	1,36	1929	25000	IRFPM		191	
	2,9	240,50	1,59	1730	25000	IRAFPM		192	
	3,0	293,46	1,70	1672	24700	IRAPM	93 / 80 M 6b	190	164
	3,3	273,73	1,80	1520	24700	IRFPM		191	
	3,7	240,50	2,02	1356	24700	IRAFPM		165	
	4,2	213,60	2,35	1194	24700			171	
	4,8	293,46	2,66	1045	25000	IRAPM	93 / 80 M 4a	190	163
	5,1	273,73	2,85	984	25000	IRFPM		191	
	5,8	240,50	3,20	865	25000	IRAFPM		164	
	6,5	213,60	3,65	772	25000			170	
	3,6	250,50	1,05	1393	17350	IRAM IRFM IRAFM	83 / 80 M 6b	134	80
	4,0	221,16	1,20	1254	17350			135	
	4,3	208,58	1,35	1167	17350				
	4,8	186,71	1,41	1045	17300			136	
	5,3	168,34	1,55	946	17300			86	
	5,5	250,50	1,65	912	17350	IRAM IRFM IRAFM	83 / 80 M 4a	134	79
	6,3	221,16	1,86	796	17350			135	
	6,7	208,58	2,10	749	17350			78	
	7,5	186,71	2,20	669	17350			85	
	8,3	168,34	2,40	604	17350				
	9,1	152,68	2,60	551	17100				



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
0,55	10	139,19	2,90	502	17100	IRAM	83 / 80 M 4a	134	79
	11	127,44	3,20	456	17100	IRFM		135	78
0,75	12	117,12	3,50	418	17100	IRAFM		136	85
	14	103,03	3,90	372	17100				
	6	154,46	1,01	837	11500	IRAM	73 / 80 M 6b	131	41
	6,5	133,53	1,18	772	11500	IRFM		132	44
	8,5	103,60	1,47	591	11500	IRAFM		133	47
	10	91,36	1,86	502	11500				
	9	154,46	1,58	558	11500	IRAM IRFM IRAFM	73 / 80 M 4a	131	40
	11	133,53	1,81	478	11500			132	46
	14	103,60	2,27	372	11500			133	43
	16	91,36	2,90	324	11500				
	17	81,25	3,26	295	11500				
	19	72,76	3,45	264	11500				
	21	65,52	3,60	239	11500				
	24	59,41	3,90	209	11500				
	7,7	116,652	0,81	652	9500	IRAM	731 / 80 M 6b	128	41
	8,9	100,847	0,91	564	9500	IRFM		129	44
						IRAFM		130	47
	9	152,090	0,96	546	9500	IRAM IRFM IRAFM	731 / 80 M 4a		
	10	134,933	1,07	502	9500				
	12	116,652	1,24	418	9500				
	14	100,847	1,44	359	9500				
	16	88,933	1,61	314	9500				
	18	78,425	1,81	279	9350			129	43
	20	69,746	2,10	251	9350			130	46
	22	62,455	2,30	228	9300				
	25	55,543	2,60	201	9250				
	28	49,737	2,90	179	9250				
	31	44,791	3,20	162	9200				
	10	87,81	0,85	502	7090	IRAM	63 / 80 M 6b	125	24
						IRFM		127	26
						IRAFM		122	24
	10	87,81	0,85	502	7090	IRAM	631 / 80 M 6b	124	26
						IRFM			
						IRAFM			
	11	127,94	0,88	456	7090	IRAM IRFM IRAFM	63 / 80 M 4a	125	
	12	119,40	0,95	436	7090			126	23
	15	96,27	1,18	346	7090			127	
	16	87,81	1,30	324	7090				
	17	83,37	1,39	295	7090				
	20	70,97	1,73	251	7090				
	23	61,03	1,87	218	7090				
	27	51,65	2,50	186	7090				
	30	46,79	2,80	167	7090				
	33	42,55	3,10	152	7090				
	40	35,74	3,70	125	7090				
	11	127,94	0,88	456	7090	IRAM	631 / 80 M 4a	122	23
	12	119,40	0,95	436	7090	IRFM		123	23
	15	96,27	1,18	346	7090	IRAFM		124	25
	16	87,81	1,30	324	7090				



P ₁	n ₂	i	S _f	M ₂	F _{QV2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]			kg
0,55	17	83,37	1,39	295	7090			
	20	70,97	1,73	251	7090			
0,75	23	61,03	1,87	218	7090	IRAM	631 / 80 M 4a	122
	27	51,65	2,50	186	7090	IRFM		23
	30	46,79	2,80	167	7090	IRAFM		23
	33	42,55	3,10	152	7090			124
	40	35,74	3,70	125	7090			25
	26	54,81	0,91	193	4150			
	29	48,41	1,10	173	4000			
	32	43,98	1,27	157	3950			
	36	39,09	1,40	139	3950	IRAM	53 / 80 M 4a	119
	40	34,93	1,55	125	3900	IRFM		19
	45	31,33	1,68	111	3900	IRAFM		120
	50	28,21	1,90	100	3900			21
	55	25,46	2,00	91	3800			121
	61	23,02	2,20	82	3700			
	64	21,88	2,25	78	3700			
	82	17,18	2,35	62	3450			
	93	15,05	2,90	55	3450	IRAM	52 / 80 M 4a	119
	105	13,29	3,20	49	3400	IRFM		17
	119	11,81	3,60	43	3350	IRAFM		120
	133	10,55	4,00	38	3350			17
	148	9,47	4,30	34	3350			19
	50	28,063	0,81	100	1620			
	53	26,193	0,87	95	1600			
	56	24,829	0,92	90	1560			
	62	22,615	0,96	81	1540			
	66	21,108	1,05	76	1500			
	70	20,009	1,15	72	1450	IRAM	43 / 80 M 4a	116
	75	18,593	1,21	67	1400	IRFM		18
	79	17,763	1,28	64	1400	IRAFM		117
	85	16,450	1,36	59	1350			19
	89	15,806	1,41	56	1300			118
	96	14,604	1,55	52	1300			
	99	14,087	1,64	51	1290			
	108	12,995	1,73	46	1250			
	121	11,581	1,95	41	1230			
	125	11,242	1,18	41	1360			
	142	9,845	1,32	36	1310			
	161	8,672	1,50	32	1270			
	182	7,673	1,73	28	1220			
	204	6,872	2,50	25	1160			
	230	6,080	2,80	22	1110	IRAM	42 / 80 M 4a	116
	253	5,538	3,00	20	1060	IRFM		18
	259	5,398	3,10	20	1050	IRAFM		117
	286	4,900	3,30	18	1020			19
	291	4,803	3,50	18	940			118
	322	4,350	3,70	16	910			
	327	4,280	3,90	16	880			
	362	3,780	4,20	14	860			
	406	3,449	4,70	13	810			



P ₁	n ₂	i	S _f	M ₂	F _{QV2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial			
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Tipo		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte	Type Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]			
0,75 1	0,39	3469,26	0,72	16768	73000	IRAM IRFM	151 IR 63 / 80 M 4b	165 494 165 493
	0,53	2552,42	0,97	12338	73000			
	0,65	2076,56	1,19	10061	73000			
	0,90	1509,47	1,47	7266	73000			
	0,93	1456,66	1,70	7032	73000			
	1,30	1049,16	2,13	5030	73000			
	1,58	860,38	2,64	4139	73000			
	0,62	2260	0,83	10712	55000	IRAM IRFM	123 IR 72 / 80 M 4b	163 437 164 437
	0,68	2044	0,93	9766	55000			
	0,85	1657	1,23	7813	55000			
	0,92	1511	1,37	7219	55000			
	1,0	1357	1,53	6641	55000			
	1,1	1227	1,70	6037	55000			
	1,4	1025	2,00	4744	55000	IRAM IRFM	122 IR 73 / 80 M 4b	163 432 164 434
	1,6	902	2,30	4151	55000			
	1,7	800	2,60	3907	55000			
	2,0	715	2,90	3321	55000			
	0,68	2070	0,94	9766	55000			
	0,75	1849	1,03	8855	55000			
	0,84	1661	1,15	7906	55000			
	0,91	1535	1,18	7298	55000			
	1,0	1362	1,18	6641	55000			
	1,1	1265	1,53	6037	55000			
	1,3	1050	1,91	5109	55000			
	1,5	932	1,91	4427	55000			
	1,7	833	1,91	3907	55000			
	1,9	748	1,91	3495	55000			
	2,0	706	1,91	3321	55000			
	2,2	634	1,91	3019	55000			
	2,4	572	1,91	2767	55000			
	2,7	518	1,91	2460	55000			
	3,0	471	1,91	2214	55000			
	3,3	429	1,91	2012	55000			
	3,6	391	1,91	1845	55000			
	3,9	358	1,91	1703	55000			
	4,3	328	1,91	1544	55000			
	4,7	300	1,91	1413	55000			
	1,2	1173	0,80	5534	33450	IRAM IRFM	103 IR 72 / 80 M 4b	161 328 162 330
	1,3	1046	0,88	5109	33450			
	1,5	923	0,97	4427	33450			
	1,7	821	1,07	3907	33450			
	1,9	733	1,17	3495	33450			
	2,1	658	1,28	3162	33450			
	2,3	592	1,39	2887	33450	IRAM IRFM	102 IR 73 / 80 M 4b	161 330 162 332
	2,6	535	1,64	2554	33450			
	2,9	485	2,10	2290	33450			
	3,2	428	2,40	2075	33450			
	3,6	381	2,60	1842	33450			
	4,1	340	2,80	1620	33450			
	1,2	1180	0,80	5534	33450	IRAM IRFM	102 IR 73 / 80 M 4b	161 330 162 332
	1,3	1103	0,87	5109	33450			
	1,4	986	0,87	4744	33450			



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
0,75 1	1,6	884	0,87	4151	33450	IRAM IRFM	102 IR 73 / 80 M 4b	161	330
	1,8	796	0,87	3690	33450			162	332
	1,9	718	0,87	3495	33450				
	2,1	650	0,87	3162	33450				
	2,4	575	0,87	2767	33450				
	2,1	648	1,03	3162	24700	IRAM IRFM	93 IR 62 / 80 M 4b	159	184
	2,4	538	1,13	2767	24700			160	
	2,6	527	1,27	2554	24700				
	2,9	479	1,40	2290	24700				
	3,2	436	1,53	2075	24700				
	3,5	398	1,67	1897	24700				
	3,8	364	1,83	1747	24700				
	4,2	334	2,00	1581	24700				
	4,4	315	1,70	1532	24700	IRAM IRFM	92 IR 62 / 80 M 4b	159	179
	5	278	1,93	1348	24700			160	
	5,7	247	2,10	1182	24700				
	6,3	221	2,40	1070	24700				
	3,9	359	0,85	1702	16900	IRAM IRFM	82 IR 63 / 80 M 4b	157	92
	4,4	315	1,04	1509	16900			158	93
	4,8	286	1,11	1383	16900				
	5,3	261	1,17	1253	16900				
	5,8	240	1,41	1145	16900				
	6,4	218	1,50	1037	16900				
	7,7	181	1,69	862	16900				
	2,7	256,048	1,27	2533	33450	IRAM IRFM IRAFM	103 / 100 L 8a	140	305
	3,1	225,112	1,88	2207	33450			141	307
	3,4	207,689	2,00	2012	33450			142	309
	3,8	184,584	2,30	1800	33450				
	4,2	165,496	2,60	1629	33450				
	5	140,701	3,10	1368	33450	IRAPM IRFPM IRAFPM	93 / 90 S 6a	190	168
	3	293,46	1,25	2280	24700			191	169
	3,3	273,73	1,32	2073	24700			192	175
	3,7	240,50	1,48	1849	24700				
	4,2	213,60	1,72	1629	24700	IRAPM IRFPM IRAFPM	93 / 80 M 4b	190	164
	4,8	293,46	1,95	1425	24700			191	165
	5,1	273,73	2,10	1341	24700			192	171
	5,8	240,50	2,30	1179	24700				
	6,5	213,60	2,70	1052	24700				
	7,3	191,38	3,00	937	24500				
	8,1	172,72	3,30	844	24500	IRAM IRFM IRAFM	83 / 90 S 6a	134	84
	4	221,16	0,88	1710	16900			135	83
	4,3	208,58	0,98	1591	16900			136	90
	4,8	186,71	1,04	1425	16900				
	5,3	168,34	1,13	1291	16700	IRAM IRFM IRAFM	83 / 80 M 4b	134	81
	5,5	250,50	1,21	1244	17100			135	80
	6,3	221,16	1,36	1086	17050			136	87
	6,7	208,58	1,55	1021	17000				
	7,5	186,71	1,61	912	17000				
	8,3	168,34	1,76	824	17000				
	9,1	152,68	1,90	752	16900				



P ₁	n ₂	i	S _f	M ₂	F _{Qv2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
0,75 1	10	139,19	2,10	684	16900				
	11	127,44	2,30	622	16900	IRAM	83 / 80 M 4b	134	81
	12	117,12	2,50	570	16900	IRFM		135	80
	14	103,03	2,80	507	16800	IRAFM		136	87
	15	91,85	3,20	456	16800				
	6,5	133,53	0,86	1053	11200	IRAM	73 / 90 S 6a	131	
	8,5	103,60	1,08	805	11200	IRFM		132	
	10	91,36	1,36	684	11200	IRAFM		133	51
	9	154,46	1,15	760	11200		73 / 80 M 4b		
	11	133,53	1,33	652	11200				
	14	103,60	1,66	507	11200				
	16	91,36	2,12	442	11200	IRAM		131	42
	17	81,25	2,39	403	11200	IRFM		132	45
	19	72,76	2,53	360	11200	IRAFM		133	48
	21	65,52	2,60	326	11200				
	24	59,41	2,90	285	11200				
	27	52,47	3,30	253	11200				
	30	46,63	3,70	228	11200				
	12	116,652	0,91	570	9350		731 / 80 M 4b		
	14	100,847	1,05	489	9350				
	16	88,933	1,18	428	9350				
	18	78,425	1,33	380	9200				
	20	69,746	1,53	342	9200	IRAM		128	42
	22	62,455	1,72	311	9150	IRFM		129	
	25	55,543	1,92	274	9100	IRAFM		130	
	28	49,737	2,10	244	9100				
	31	44,791	2,30	221	9050				
	35	39,887	3,20	196	9050				
	40	35,224	3,50	171	9000				
	44	31,622	3,40	158	9000	IRAM	721 / 80 M 4b	128	42
	50	28,055	3,80	139	9000	IRFM		129	45
						IRAFM		130	48
	15	96,27	0,86	472	7000		63 / 80 M 4b		
	16	87,81	0,95	442	7000				
	17	83,37	1,01	403	7000				
	20	70,97	1,27	342	7000				
	23	61,03	1,37	298	7000	IRAM		125	25
	27	51,65	1,87	253	7000	IRFM		126	25
	30	46,79	2,00	228	7000	IRAFM		127	27
	33	42,55	2,20	207	7000				
	40	35,74	2,70	171	7000				
	47	29,85	3,20	146	7000				
	55	25,16	3,80	124	7000				
	15	96,27	0,86	472	7000	IRAM	631 / 80 M 4b	122	25
	16	87,81	0,95	442	7000	IRFM		123	25
	17	83,37	1,01	403	7000	IRAFM		124	27
	20	70,97	1,27	342	7000		631 / 80 M 4b		
	23	61,03	1,37	298	7000	IRAM		122	25
	27	51,65	1,87	253	7000	IRFM		123	
	30	46,79	2,00	228	7000	IRAFM		124	27
	33	42,55	2,20	207	7000				



P ₁	n ₂	i	S _f	M ₂	F _{Q/2}				
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte		Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
0,75 1	40	35,74	2,70	171	7000	IRAM	631 / 80 M 4b	122	25
	47	29,85	3,20	146	7000	IRFM		123	25
	55	25,16	3,80	124	7000	IRAFM		124	27
	32	43,98	0,94	214	3800				
	36	39,09	1,03	190	3750				
	40	34,93	1,13	171	3600				
	45	31,33	1,23	152	3550				
	50	28,21	1,38	137	3550	IRAM	53 / 80 M 4b	119	21
	55	25,46	1,48	124	3500	IRFM		120	21
	61	23,02	1,62	112	3500	IRAFM		121	23
	64	21,88	1,65	107	3400				
	71	19,69	1,82	96	3350				
	79	17,77	2,00	87	3300				
	87	16,07	2,30	79	3300				
	82	17,18	1,73	85	3300				
	93	15,05	2,10	75	3200				
	105	13,29	2,30	66	3150				
	119	11,81	2,60	58	3150				
	133	10,55	2,90	52	3100	IRAM	52 / 80 M 4b	119	19
	148	9,47	3,15	47	3100	IRFM		120	19
	158	8,88	3,40	44	3050	IRAFM		121	21
	176	7,97	3,50	39	3050				
	195	7,17	3,70	36	3000				
	216	6,47	3,90	32	3000				
	241	5,82	4,00	29	3000				
	66	21,108	0,77	104	1470				
	70	20,009	0,84	98	1420				
	75	18,593	0,89	91	1390				
	79	17,763	0,94	87	1370				
	85	16,450	1,00	81	1320	IRAM	43 / 80 M 4b	116	20
	89	15,806	1,03	77	1290	IRFM		117	21
	96	14,604	1,13	71	1270	IRAFM		118	21
	99	14,087	1,20	69	1260				
	108	12,995	1,27	63	1230				
	121	11,581	1,43	57	1200				
	125	11,242	0,87	56	1320				
	142	9,845	0,97	49	1270				
	161	8,672	1,10	43	1230				
	182	7,673	1,27	38	1180				
	204	6,872	1,83	34	1120	IRAM	42 / 80 M 4b	116	20
	230	6,080	2,10	30	1070	IRFM		117	21
	253	5,538	2,20	27	1030	IRAFM		118	21
	259	5,398	2,30	27	1020				
	286	4,900	2,40	24	990				
	291	4,803	2,60	24	910				
	322	4,350	2,70	22	880				
	327	4,280	2,80	21	850	IRAM	42 / 80 M 4b	116	20
	362	3,780	3,10	19	830	IRFM		117	21
	406	3,449	3,40	17	800	IRAFM		118	21



P ₁	n ₂	i	S _f	M ₂	F _{Qv2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Tipo	
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Type	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte		Typ	
[kW] Hp	[r.p.m]			[Nm]	[N]			kg
1,1 1,5	0,69	2005,04	0,85	13900	73000	IRAM IRFM	151 IR 63 / 90 S 4a	165 497
	0,82	1690,37	0,97	11696	73000			165 504
	0,96	1444,14	1,15	9991	73000			
	1,32	1049,16	1,47	7266	73000			
	1,60	860,38	1,82	5994	73000			
	1,97	699,98	2,11	4869	73000			
	2,93	471,36	2,25	3273	73000			
	1,71	808,20	3,73	5695	73000	IRAM IRFM	151 IR 62 / 90 S 4a	165 496
								165 503
	0,85	1657	0,84	11459	55000	IRAM IRFM	123 IR 72 / 90 S 4a	163 438
	0,92	1511	0,93	10587	55000			164 440
	1,00	1357	1,05	9740	55000			
	1,1	1227	1,16	8855	55000			
	1,4	1025	1,38	6957	55000			
	1,6	902	1,57	6088	55000			
	1,7	800	1,78	5730	55000			
	2,0	715	1,99	4870	55000			
	2,2	642	2,20	4427	55000			
	2,4	579	2,40	4059	55000			
	2,5	551	2,50	3896	55000			
	2,8	491	2,80	3479	55000			
	0,91	1535	0,80	10704	55000	IRAM IRFM	122 IR 73 / 90 S 4a	163 435
	1,0	1362	0,80	9740	55000			164 437
	1,1	1265	1,04	8855	55000			
	1,3	1050	1,30	7493	55000			
	1,5	932	1,30	6494	55000			
	1,7	833	1,30	5730	55000			
	1,9	748	1,30	5127	55000			
	2,0	706	1,30	4870	55000			
	2,2	634	1,30	4427	55000			
	2,4	572	1,30	4059	55000			
	2,7	518	1,30	3608	55000			
	3,0	471	1,30	3247	55000			
	3,3	429	1,30	2952	55000			
	3,6	391	1,30	2706	55000			
	3,9	358	1,30	2498	55000			
	4,3	328	1,30	2265	55000			
	4,7	300	1,30	2072	55000			
	1,9	733	0,80	5127	32550	IRAM IRFM	103 IR 72 / 90 S 4a	161 331
	2,1	658	0,87	4638	32550			162 333
	2,3	592	0,95	4235	32550			
	2,6	535	1,12	3746	32550			
	2,9	485	1,43	3359	32550			
	3,2	428	1,64	3044	32550			
	3,6	381	1,77	2706	32550			
	4,1	340	1,91	2376	32550			
	4,5	305	2,10	2165	32550			
	5,0	275	2,30	1948	32550			
	5,6	248	2,70	1739	32550			
	5,9	239	2,70	1676	32550	IRAM IRFM	102 IR 72 / 90 S 4a	161 321
	6,6	211	3,00	1498	32550			162 323



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
1,1 1,5	3,2	725	1,05	3043	23500	IRAM IRFM	93 IR 62 / 90 S 4a	159	190
	3,5	648	1,14	2782	23500			160	191
	3,8	538	1,25	2563	23500				
	4,2	527	1,36	2319	23500				
	4,4	315	1,16	2247	23000	IRAM IRFM	92 IR 62 / 90 S 4a	159	184
	5	278	1,32	1977	23000			160	185
	5,7	247	1,48	1734	23000				
	6,3	221	1,66	1569	23000				
	5,3	261	0,80	1837	16900	IRAM IRFM	82 IR 63 / 90 S 4a	157	30
	5,8	240	0,96	1679	16900			158	31
	6,4	218	1,02	1522	16900				
	7,7	181	1,15	1265	16900				
	2,7	256,048	1,17	3716	32550	IRAM IRFM IRAFM	103 / 100 L 8b	140	307
	3,1	225,112	1,28	3236	32550			141	309
	3,4	207,689	1,39	2951	32550			142	311
	3,8	184,584	1,55	2640	32550				
	4,2	165,496	1,75	2389	32550	IRAPM IRFPM IRAFPM	93 / 90 L 6b	190	170
	5	140,701	2,10	2006	32550			191	171
	3	293,46	0,85	3344	23500			192	177
	3,3	273,73	0,90	3040	23500				
	3,7	240,50	1,00	2711	23000	IRAPM IRFPM IRAFPM	93 / 90 S 4a	190	168
	4,2	213,60	1,17	2389	23000			191	169
	4,8	293,46	1,33	2090	23500			192	175
	5,1	273,73	1,42	1967	23500				
	5,8	240,50	1,60	1730	23500	IRAM IRFM IRAFM	83 / 90 S 4a	134	84
	6,5	213,60	1,82	1543	23000			135	83
	7,3	191,38	2,00	1374	23000			136	90
	8,1	172,72	2,30	1239	23000				
	8,9	156,82	2,50	1127	23000	IRAM IRFM IRAFM	73 / 90 S 4a	131	45
	11	131,17	3,00	946	22900			132	48
	12	120,68	3,20	865	22900			133	51
	13	110,02	3,50	790	22900				
	6,3	221,16	0,93	1592	16900	IRAM IRFM IRAFM	83 / 90 S 4a	134	84
	6,7	208,58	1,06	1497	16900			135	83
	7,5	186,71	1,10	1338	16900			136	90
	8,3	168,34	1,20	1209	16750				
	9,1	152,68	1,30	1102	16750	IRAM IRFM IRAFM	83 / 90 S 4a	134	84
	10	139,19	1,45	1003	16750			135	83
	11	127,44	1,60	912	16750			136	90
	12	117,12	1,75	836	16600				
	14	103,03	1,95	743	16600	IRAM IRFM IRAFM	83 / 90 S 4a	134	84
	15	91,85	2,20	669	16600			135	83
	17	82,47	2,50	590	16500			136	90
	19	74,47	2,80	528	16500				
	21	66,18	3,10	478	16500	IRAM IRFM IRAFM	73 / 90 S 4a	131	45
	24	59,39	3,50	418	16500			132	48
	26	53,54	3,80	386	16400			133	51
	29	48,44	4,30	349	16400				
	11	133,53	0,90	956	10500	IRAM IRFM IRAFM	73 / 90 S 4a	131	45
	14	103,60	1,13	744	10500			132	48
	16	91,36	1,44	648	10500			133	51



P ₁	n ₂	i	S _f	M ₂	F _{Q/2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
1,1 1,5	17	81,25	1,63	591	10500				
	19	72,76	1,72	528	10500				
	21	65,52	1,80	478	10500	IRAM	73 / 90 S 4a	131	45
	24	59,41	1,97	418	10500	IRFM		132	48
	27	52,47	2,26	372	10500	IRAFM		133	51
	30	46,63	2,52	335	10500				
	16	88,933	0,80	627	9250				
	18	78,425	0,90	558	9100				
	20	69,746	1,04	502	9100				
	22	62,455	1,17	456	9050				
	25	55,543	1,31	402	9000				
	28	49,737	1,44	359	9000	IRAM	731 / 90 S 4a	128	45
	31	44,791	1,61	324	8950	IRFM		129	48
	35	39,887	2,20	287	8950	IRAFM		130	51
	40	35,224	2,40	251	8900				
	45	31,308	2,60	223	8900				
	50	27,971	2,90	201	8800				
	56	25,095	3,20	179	8800				
	62	22,590	3,50	162	8700				
	44	31,622	2,30	232	8900	IRAM	721 / C80 M 4	128	42
	50	28,055	2,60	204	8800	IRFM		129	45
						IRAFM		130	48
	58	24,254	3,00	176	8800	IRAM	721 / 90 S 4a	128	43
						IRFM			
						IRAFM		130	49
	20	70,97	0,87	502	6500				
	23	61,03	0,93	436	6500				
	27	51,65	1,27	372	6500				
	30	46,79	1,40	335	6500				
	33	42,55	1,55	304	6500	IRAM	63 / 90 S 4a	125	29
	40	35,74	1,85	251	6500	IRFM		126	29
	47	29,85	2,20	214	6500	IRAFM		127	31
	55	25,16	2,60	183	6500				
	65	21,50	3,00	154	6500				
	68	20,53	3,20	148	6500				
	77	18,18	3,60	130	6500				
	20	70,97	0,87	502	6500				
	23	61,03	0,93	436	6500				
	27	51,65	1,27	372	6500				
	30	46,79	1,40	335	6500				
	33	42,55	1,55	304	6500	IRAM	631 / 90 S 4a	122	29
	40	35,74	1,85	251	6500	IRFM		123	29
	47	29,85	2,20	214	6500	IRAFM		124	31
	55	25,16	2,60	183	6500				
	65	21,50	3,00	154	6500				
	68	20,53	3,20	148	6500				
	77	18,18	3,60	130	6500				
	93	15,130	3,70	110	6300	IRAM	62 / 90 S 4a	125	
	104	13,475	4,20	98	6300	IRFM		126	
	115	12,206	4,40	89	6300	IRAFM		127	30



P ₁	n ₂	i	S _f	M ₂	F _{Q/2}				
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte		Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
1,1 1,5	93	15,130	3,70	110	6300	IRAM	621 / 90 S 4a	125	28
	104	13,475	4,20	98	6300	IRFM		126	28
	115	12,206	4,40	89	6300	IRAFM		127	30
	45	31,33	0,84	223	3400		53 / 90 S 4a		
	50	28,21	0,95	201	3300				
	55	25,46	1,00	182	3300	IRAM		119	24
	61	23,02	1,11	164	3250	IRFM		120	24
	64	21,88	1,12	157	3250	IRAFM		121	26
	71	19,69	1,24	141	3200				
	79	17,77	1,38	127	3100				
	87	16,07	1,55	115	3050				
	82	17,18	1,18	124	3050	IRAM	52 / C80 M 4	119	22
	93	15,05	1,45	110	3050	IRFM		120	22
						IRAFM		121	24
	105	13,29	1,61	97	3000		52 / 90 S 4a		
	119	11,81	1,81	86	3000				
	133	10,55	2,00	77	3000				
	148	9,47	2,15	69	2900				
	158	8,88	2,30	64	2800				
	176	7,97	2,40	58	2650				
	195	7,17	2,50	52	2600	IRAM		119	22
	216	6,47	2,60	47	2600	IRFM		120	22
	241	5,82	2,70	42	2550	IRAFM		121	24
	267	5,25	2,80	38	2500				
	279	5,03	2,90	37	2500				
	310	4,51	3,20	33	2450				
	345	4,06	3,40	30	2400				
	382	3,66	3,60	27	2400				
	96	14,604	0,77	105	1200	IRAM	43 / 90 S 4a	116	23
	99	14,087	0,82	101	1180	IRFM		117	24
	108	12,995	0,86	93	1150	IRAFM		118	24
	121	11,581	0,98	83	1100				
	182	7,673	0,86	56	1050		42 / 90 S 4a		
	204	6,872	1,25	50	1030				
	230	6,080	1,40	44	1000				
	253	5,538	1,50	40	1000				
	259	5,398	1,55	39	960	IRAM		116	23
	286	4,900	1,65	36	930	IRFM		117	24
	291	4,803	1,75	35	890	IRAFM		118	24
	322	4,350	1,85	32	860				
	327	4,280	1,95	31	830				
	362	3,780	2,10	28	800				
	406	3,449	2,30	25	770				
1,5 2	0,93	1509,47	0,80	14063	73000		151 IIR 63 / 90 L 4a		
	1,09	1289,59	0,95	11999	73000				
	1,45	963,50	1,20	9020	73000	IRAM		165	499
	1,73	808,20	1,55	7676	73000	IRFM		165	497
	2,10	665,88	1,83	6323	73000				
	2,45	571,65	2,17	5420	73000				
	2,86	489,45	2,87	4643	73000				

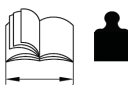


P ₁	n ₂	i	S _f	M ₂	F _{Qv2}				
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial				
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads			Tipo	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte			Type	
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
1,5 2	1,1	1227	0,85	12075	55000	IRAM IRFM	123 IR 72 / 90 L 4a	163	440
	1,4	1025	1,02	9487	55000				
	1,6	902	1,15	8301	55000				
	1,7	800	1,30	7813	55000				
	2,0	715	1,46	6641	55000				
	2,2	642	1,61	6037	55000				
	2,4	579	1,76	5534	55000				
	2,5	551	1,83	5313	55000				
	2,8	491	2,00	4744	55000				
	3,2	436	2,30	4151	55000				
	3,6	388	2,50	3690	55000				
	4,0	348	2,80	3321	55000				
	1,3	1050	0,95	10217	55000				
	1,5	932	0,95	8855	55000				
	1,7	833	0,95	7813	55000	IRAM IRFM	122 IR 73 / 90 L 4a	163	437
	1,9	748	0,95	6991	55000				
	2,0	706	0,95	6641	55000				
	2,2	634	0,95	6037	55000				
	2,4	572	0,95	5534	55000				
	2,7	518	0,95	4919	55000				
	3,0	471	0,95	4427	55000				
	3,3	429	0,95	4025	55000				
	3,6	391	0,95	3690	55000				
	3,9	358	0,95	3406	55000				
	4,3	328	0,95	3089	55000				
	4,7	300	0,95	2826	55000				
	2,6	535	0,82	5109	31000	IRAM IRFM	103 IR 72 / 90 L 4a	161	335
	2,9	485	1,05	4580	31000				
	3,2	428	1,20	4151	31000				
	3,6	381	1,30	3690	31000				
	4,1	340	1,40	2140	31000				
	4,5	305	1,55	2952	31000				
	5,0	275	1,70	2656	31000				
	5,6	248	2,00	2372	31000				
	5,9	239	2,00	2286	31000	IRAM IRFM	102 IR 72 / 90 L 4a	161	325
	6,6	211	2,20	2043	31000				
	7,4	188	2,40	1822	31000				
	8,0	168	2,70	1686	31000				
	3,8	364	0,92	3495	23100	IRAM IRFM	93 IR 62 / 90 L 4a	159	181
	4,2	334	1,00	3162	23100				
	4,4	315	0,85	3064	22700	IRAM IRFM	92 IR 62 / 90 L 4a	159	186
	5	278	0,97	2696	22700				
	5,7	247	1,08	2365	22700				
	6,3	221	1,22	2140	22700				
	2,7	256,048	0,86	5067	31000	IRAM IRFM IRAFM	103 / 112 M 8a	140	315
	3,1	225,112	0,94	4413	31000				
	3,4	207,689	1,02	4024	31000				
	3,8	184,584	1,14	3600	31000				
	4,2	165,496	1,28	3257	31000				
	5	140,701	1,55	2736	31000				



P ₁	n ₂	i	S _f	M ₂	F _{Q1/2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]		kg	
1,5 2	3,5	256,048	1,09	3909	31000	IRAM IRFM IRAFM	103 / 100 L 6a	140 141 142 308
	4	225,112	1,19	3420	31000			
	4,3	207,689	1,31	3181	31000			
	4,9	184,584	1,47	2792	31000			
	5,4	165,496	1,64	2533	31000			
	6,4	140,701	2,00	2138	31000			
	7,1	126,151	2,20	1927	31000			
	4,8	293,46	0,97	2850	23100	IRAPM IRFPM IRAFPM	93 / 90 L 4a	190 191 192 170 171 177
	5,1	273,73	1,04	2682	23100			
	5,8	240,50	1,17	2359	23100			
	6,5	213,60	1,34	2105	22800			
	7,3	191,38	1,50	1874	22800			
	8,1	172,72	1,65	1689	22800			
	8,9	156,82	1,82	1537	22800			
	11	131,17	2,18	1291	22700			
	12	120,68	2,35	1179	22700			
	13	110,02	2,60	1077	22700			
	14	96,96	2,93	950	22700			
	16	86,16	3,30	844	22700			
	8,3	168,34	0,88	1648	16700	IRAM IRFM IRAFM	83 / 90 L 4a	134 135 136 86 85 92
	9,1	152,68	0,95	1503	16700			
	10	139,19	1,06	1368	16700			
	11	127,44	1,17	1244	16500			
	12	117,12	1,28	1140	16500			
	14	103,03	1,43	1013	16300			
	15	91,85	1,60	912	16300			
	17	82,47	1,83	805	16300			
	19	74,47	2,00	720	16300			
	21	66,18	2,20	651	16250			
	24	59,39	2,50	570	16250			
	26	53,54	2,80	526	16250			
	29	48,44	3,10	472	16200			
	31	45,93	3,20	441	16200			
	35	41,22	3,60	391	16200			
	39	37,16	4,00	351	16200			
	16	91,36	1,06	883	10000	IRAM IRFM IRAFM	73 / 90 L 4a	131 132 133 50 53
	17	81,25	1,19	805	10000			
	19	72,76	1,26	720	10000			
	21	65,52	1,32	652	10000			
	24	59,41	1,45	570	10000			
	27	52,47	1,66	507	10000			
	30	46,63	1,85	456	10000			
	34	41,66	2,05	403	10000			
	38	37,38	2,30	360	10000			
	45	31,16	2,60	304	10000			
	50	27,84	2,99	274	10000			
	55	24,97	3,10	249	10000			
	62	22,48	3,63	221	10000			
	22	62,455	0,86	622	8950	IRAM IRFM IRAFM	731 / 90 L 4a	128 129 130 47 50 53
	25	55,543	0,96	548	8900			
	28	49,737	1,06	489	8900			
	31	44,791	1,18	442	8850			

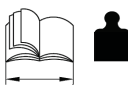


P ₁	n ₂	i	S _f	M ₂	F _{Qv2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
1,5 2	35	39,887	1,61	391	8850				
	40	35,224	1,76	342	8800				
	45	31,308	1,90	304	8800	IRAM	731 / 90 L 4a	128	47
	50	27,971	2,10	274	8700	IRFM		129	50
	56	25,095	2,30	244	8700	IRAFM		130	53
	62	22,590	2,50	221	8600				
	58	24,254	2,20	240	8700	IRAM	721 / 90 L 4a	128	45
	65	21,388	2,50	214	8600	IRFM		129	48
						IRAFM		130	51
	27	51,65	0,94	507	5400				
	30	46,79	1,02	456	5400				
	33	42,55	1,13	415	5400				
	40	35,74	1,35	342	5400				
	47	29,85	1,61	291	5400	IRAM	63 / 90 L 4a	125	31
	55	25,16	1,90	249	5400	IRFM			
	65	21,50	2,20	211	5400	IRAFM		127	33
	68	20,53	2,30	201	5400				
	77	18,18	2,60	178	5400				
	90	15,59	2,90	157	5400				
	101	13,81	3,30	140	5400				
	27	51,65	0,94	507	5400				
	30	46,79	1,02	456	5400				
	33	42,55	1,13	415	5400				
	40	35,74	1,35	342	5400				
	47	29,85	1,61	291	5400	IRAM	631 / 90 L 4a	122	31
	55	25,16	1,90	249	5400	IRFM		123	32
	65	21,50	2,20	211	5400	IRAFM			
	68	20,53	2,30	201	5400				
	77	18,18	2,60	178	5400				
	90	15,59	2,90	157	5400				
	101	13,81	3,30	140	5400				
	93	15,130	2,70	149	5200				
	104	13,475	3,10	134	5200				
	115	12,200	3,20	121	5200				
	126	11,102	3,50	110	5200	IRAM	62 / 90 L 4a	125	30
	140	10,074	3,80	99	5200	IRFM		126	30
	150	9,350	3,60	93	5200	IRAFM		127	
	165	8,510	3,80	84	5200				
	183	7,673	4,00	76	5200				
	197	7,100	4,20	71	5200				
	93	15,130	2,70	149	5200				
	104	13,48	3,10	134	5200				
	115	12,20	3,20	121	5200				
	126	11,10	3,50	110	5200	IRAM	621 / 90 L 4a		
	140	10,07	3,80	99	5200	IRFM		123	30
	150	9,35	3,60	93	5200	IRAFM		124	32
	165	8,51	3,80	84	5200				
	183	7,67	4,00	76	5200				
	197	7,10	4,20	71	5200				



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle	Übersetzung	Betriebsfaktor	Abtriebswelle	Querkräfte				
Drehzahlen	Drehmomente								
[kW]	[r.p.m]			[Nm]	[N]				kg
Hp									
1,5	64	21,88	0,82	214	2950	IRAM	53 / 90 L 4a	119	26
	71	19,69	0,91	193	2900	IRFM		120	26
	79	17,77	1,00	173	2900	IRAFM		121	28
	87	16,07	1,13	157	2800				
2	105	13,29	1,18	132	2750		52 / 90 L 4a		
	119	11,81	1,33	117	2700				
	133	10,55	1,46	104	2650				
	148	9,47	1,58	94	2600				
	158	8,88	1,72	88	2550				
	176	7,97	1,76	79	2550				
	195	7,17	1,83	71	2550				
	216	6,47	1,96	64	2500	IRAM		119	24
	241	5,82	2,00	58	2400	IRFM		120	24
	267	5,25	2,10	52	2350	IRAFM		121	26
	279	5,03	2,15	50	2350				
	310	4,51	2,30	45	2250				
	345	4,06	2,50	40	2200				
	382	3,66	2,70	36	2150				
	423	3,31	2,90	33	2150				
	458	3,05	2,80	30	2150				
	482	2,90	4,10	29	2150				
	544	2,57	4,10	26	2150				
	296	9,47	3,10	47	2350		52 / 90 S 2a		
	315	8,88	3,10	44	2350				
	351	7,97	3,10	40	2200				
	390	7,17	3,20	36	2200	IRAM		119	22
	432	6,47	3,50	32	2150	IRFM		120	22
	481	5,82	3,50	29	2100	IRAFM		121	24
	533	5,25	3,70	26	2000				
	556	5,03	4,00	25	1900				
	620	4,51	4,40	22	1750				
2,2	204	6,872	0,92	68	1000		42 / 90 L 4a		
	230	6,080	1,03	60	970				
	253	5,538	1,10	55	970				
	259	5,398	1,14	54	930	IRAM		116	25
	286	4,900	1,21	49	900	IRFM		117	26
	291	4,803	1,28	48	860	IRAFM		118	26
	322	4,350	1,35	43	830				
	327	4,280	1,43	43	800				
	362	3,780	1,54	38	770				
	406	3,449	1,72	34	750				
3	1,38	1012,06	0,85	13905	73000	IRAM	151 İR 73 / 100 L 4a	166	522
	1,90	735,26	1,18	10096	73000	IRFM		166	524
	2,39	586,63	1,47	8026	73000		151 İR 72 / 100 L 4a		
	2,88	485,57	1,98	6660	73000	IRAM		166	520
	3,21	436,68	2,20	5976	73000	IRFM		166	522
	3,90	359,13	2,67	4918	73000				
	4,57	306,48	3,20	4197	73000				
	1,7	800	0,89	11459	55000	IRAM	123 İR 72 / 100 L 4a	163	444
	2,0	715	0,99	9740	55000	IRFM		164	446
	2,2	642	1,10	8855	55000				



P ₁	n ₂	i	S _f	M ₂	F _{QV2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte	Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]			kg
2,2 3	2,4	579	1,20	8117	55000	IRAM IRFM	123 IR 72 / 100 L 4a	163 444 164 446
	2,5	551	1,25	7792	55000			
	2,8	491	1,40	6957	55000			
	3,2	436	1,60	6088	55000			
	3,6	388	1,75	5411	55000			
	4,0	348	1,95	4870	55000			
	4,4	314	2,10	4427	55000			
	4,9	285	2,40	3976	55000			
	5,4	259	2,60	3608	55000			
	5,9	236	2,90	3302	55000			
	6,5	215	3,20	2997	55000			
	3,2	428	0,82	6088	30700			
	3,6	381	0,89	5411	30700			
	4,1	340	0,95	4751	30700			
	4,5	305	1,05	4329	30700			
	5,0	275	1,16	3896	30700			
	5,6	248	1,36	3479	30700			
	5,9	239	1,36	3302	30700	IRAM IRFM	102 IR 72 / 100 L 4a	161 327
	6,6	211	1,50	2952	30700			
	7,4	188	1,67	2633	30700			
	8,0	168	1,84	2435	30700			
	3,7	186,123	1,54	5427	55000			
	4,2	167,082	1,72	4781	55000			
	4,6	151,088	1,90	4365	55000			
	5,7	122,480	2,50	3523	55000			
	6,2	111,746	2,60	3238	55000			
	7,0	100,314	3,00	2868	50000			
	7,7	90,712	3,30	2680	50000			
	9,2	75,766	3,80	2182	50000			
	3,5	256,048	0,74	5733	30700			
	4	225,112	0,81	5016	30700			
	4,3	207,689	0,89	4666	30700			
	4,9	184,584	1,00	4095	30700			
	5,4	165,496	1,12	3716	30700			
	6,4	140,701	1,36	3135	30700			
	7,1	126,151	1,50	2826	30700			
	5,5	256,048	1,17	3648	30700	IRAM IRFM IRAFM	103 / 100 L 4a	140 305 141 307 142 309
	6,2	225,112	1,27	3236	30700			
	6,7	207,689	1,38	2995	30700			
	7,6	184,584	1,56	2640	30700			
	8,5	165,496	1,74	2361	30700			
	10	140,701	2,10	2006	30550			
	11	126,151	2,30	1824	30550			
	12	113,930	2,60	1672	30550			
	14	103,519	2,80	1433	30550			
	15	94,544	3,10	1338	30550			
	16	86,727	3,30	1254	30550			
	18	77,321	3,70	1115	30400			
	5,8	240,50	0,80	3459	22500			
	6,5	213,60	0,91	3087	22500			
	7,3	191,38	1,02	2749	22500			



P ₁	n ₂	i	S _f	M ₂	F _{Q1/2}				
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo			
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type			
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ			
[kW] Hp	[r.p.m]			[Nm]	[N]			kg	
2,2 3	8,1	172,72	1,12	2477	22500	IRAM IRFM IRAFM	93 / 100 L 4a	137 138 139	174 175 181
	8,9	156,82	1,24	2254	22500				
	11	131,17	1,48	1893	22500				
	12	120,68	1,60	1730	22500				
	13	110,02	1,77	1580	22500				
	14	96,96	2,00	1393	22500				
	16	86,16	2,30	1239	22400				
	18	77,10	2,50	1109	22400				
	20	68,65	2,70	984	22400				
	23	60,50	3,00	869	22400				
	26	53,76	3,60	772	22250				
	29	48,11	4,00	692	22250				
	32	43,29	4,50	621	22250				
	11	127,44	0,80	1824	16100	IRAM IRFM IRAFM	83 / 100 L 4a	134 135 136	90 89 96
	12	117,12	0,87	1672	16100				
	14	103,03	0,97	1486	16100				
	15	91,85	1,10	1338	16100				
	17	82,47	1,25	1180	16050				
	19	74,47	1,40	1056	16050				
	21	66,18	1,55	955	16050				
	24	59,39	1,75	836	16000				
	26	53,54	1,90	772	16000				
	29	48,44	2,10	692	16000				
	31	45,93	2,20	647	15900				
	35	41,22	2,50	573	15900				
	39	37,16	2,70	514	15850				
	43	33,62	3,20	467	15800				
	47	30,08	3,50	427	15750				
	52	27,12	3,80	386	15500				
	57	24,54	4,20	352	15300				
	63	22,27	4,60	318	15100				
	17	81,25	0,81	1181	9700	IRAM IRFM IRAFM	73 / 100 L 4a	131 132 133	51 54 57
	19	72,76	0,86	1057	9700				
	21	65,52	0,90	956	9700				
	24	59,41	0,99	837	9700				
	27	52,47	1,13	744	9700				
	30	46,63	1,26	669	9700				
	34	41,66	1,40	591	9700				
	38	37,38	1,56	528	9700				
	45	31,16	1,77	446	9700				
	50	27,84	1,98	402	9700				
	55	24,97	2,11	365	9700				
	62	22,48	2,47	324	9700				
	70	20,29	2,72	287	9700				
	75	18,35	2,93	268	9700				
	85	16,62	3,20	236	9700				
	95	15,06	3,90	211	9700				
	104	13,53	3,70	194	9350	IRAM IRFM IRAFM	72 / 100 L 4a	131 132 133	49 52 55



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
2,2 3	31	44,791	0,80	648	8650				
	35	39,887	1,10	574	8650				
	40	35,224	1,20	502	8600	IRAM	731 / 100 L 4a	128	51
	45	31,308	1,30	446	8600	IRFM			
	50	27,971	1,45	402	8500	IRAFM		130	57
	56	25,095	1,60	359	8500				
	62	22,590	1,75	324	8400				
	58	24,254	1,50	351	8500	IRAM	721 / C90 L 4	128	49
						IRFM			
						IRAFM		130	55
	65	21,388	1,70	314	8400		721 / 100 L 4a		
	74	19,021	1,90	275	8350				
	82	17,033	2,10	249	8300	IRAM		128	49
	91	15,339	2,30	224	8300	IRFM		129	52
	102	13,731	2,40	200	8200	IRAFM		130	55
	115	12,126	2,80	177	8200				
	125	11,172	2,90	163	8200				
	142	9,866	3,30	144	8100				
	40	35,74	0,92	502	4550		63 / 100 L 4a		
	47	29,85	1,10	427	4550				
	55	25,16	1,30	365	4550	IRAM		125	34
	65	21,50	1,52	309	4550	IRFM		126	34
	68	20,53	1,60	295	4550	IRAFM		127	36
	77	18,18	1,80	261	4550				
	90	15,59	2,00	231	4550				
	101	13,81	2,30	205	4550				
	40	35,74	0,92	502	4550		631 / 100 L 4a		
	47	29,85	1,10	427	4550				
	55	25,16	1,30	365	4550	IRAM		122	34
	65	21,50	1,52	309	4550	IRFM		123	34
	68	20,53	1,60	295	4550	IRAFM		124	36
	77	18,18	1,80	261	4550				
	90	15,59	2,00	231	4550				
	101	13,81	2,30	205	4550				
	93	15,13	1,87	219	4150	IRAM	62 / C90 L 4	125	33
						IRFM		126	33
						IRAFM		127	35
	104	13,48	2,10	196	4150		62 / 100 L 4a		
	115	12,20	2,20	177	4150				
	126	11,10	2,40	162	4150				
	140	10,07	2,60	146	4150	IRAM		125	33
	150	9,35	2,50	136	4150	IRFM		126	33
	165	8,51	2,60	124	4150	IRAFM		127	35
	183	7,67	2,70	111	4150				
	197	7,10	2,90	103	4150				
	216	6,48	3,00	94	4150				
	234	5,99	3,20	87	4150				
	93	15,13	1,87	219	4150	IRAM	621 / C90 L 4	125	33
						IRFM		126	33
						IRAFM		127	35



P ₁	n ₂	i	S _f	M ₂	F _{QV2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte	Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]			kg
2,2 3	104	13,48	2,10	196	4150	IRAM IRFM IRAFM	621 / 100 L 4a	122 33 123 33 124 35
	115	12,20	2,20	177	4150			
	126	11,10	2,40	162	4150			
	140	10,07	2,60	146	4150			
	150	9,35	2,50	136	4150			
	165	8,51	2,60	124	4150			
	183	7,67	2,70	111	4150			
	197	7,10	2,90	103	4150			
	216	6,48	3,00	94	4150			
	234	5,99	3,20	87	4150			
	105	13,29	0,80	194	2350	IRAM IRFM IRAFM	52 / C90 L 4	119 28 120 28 121 30
	119	11,81	0,91	171	2250			
	133	10,55	1,00	133	2150	IRAM IRFM IRAFM	52 / 100 L 4a	119 28 120 28 121 30
	148	9,47	1,08	138	2100			
	158	8,88	1,17	129	2100			
	176	7,97	1,20	116	2100			
	195	7,17	1,25	105	2100			
	216	6,47	1,33	94	2050			
	241	5,82	1,36	85	2050			
	267	5,25	1,43	76	2050			
	279	5,03	1,46	73	2050			
	310	4,51	1,60	66	2050			
	345	4,06	1,73	59	2000			
	382	3,66	1,84	53	2000			
	423	3,31	1,97	48	2000			
	458	3,05	1,95	45	2000			
	482	2,90	2,00	42	2000			
	544	2,57	2,20	37	2000			
	265	10,55	2,00	77	2050	IRAM IRFM IRAFM	52 / 90 L 2a	120 24 121 26
	296	9,47	2,10	69	2050			
	315	8,88	2,10	65	2000			
	351	7,97	2,10	58	1950			
	390	7,17	2,20	52	1900			
	432	6,47	2,30	47	1850			
	481	5,82	2,30	42	1850			
	533	5,25	2,50	38	1800			
	556	5,03	2,70	37	1800			
	620	4,51	3,00	33	1700			
	689	4,06	3,10	30	1600			
	763	3,66	3,30	27	1550			
	844	3,31	3,50	24	1500			
3 4	1,73	807,34	0,78	15355	73000	IRAM IRFM	151 IR 72 / 100 L 4b	166 525
	1,87	747,36	0,86	14206	73000			
	2,39	586,53	1,08	11115	73000			
	2,88	485,49	1,47	9224	73000			
	3,47	403,65	1,53	7656	73000			
	3,72	376,84	1,91	7141	73000			
	5,02	278,72	2,55	5292	73000			
	5,73	244,45	2,97	4636	73000			



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo	
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte	Typ	
[kW] Hp	[r.p.m]			[Nm]	[N]		kg
3 4	2,5	551	0,92	10626	55000	IRAM IRFM 123 IR 72 / 100 L 4b	163 447 164 449
	2,8	491	1,03	9487	55000		
	3,2	436	1,17	8301	55000		
	3,6	388	1,28	7379	55000		
	4,0	348	1,43	6641	55000		
	4,4	314	1,57	6037	55000		
	4,9	285	1,76	5421	55000		
	5,4	259	1,94	4919	55000		
	5,9	236	2,10	4503	55000		
	6,5	215	2,30	4087	55000		
	5	275	0,87	5313	30000		
	5,6	248	1,02	4744	30000		
	5,9	239	1,02	4571	30000		
	6,6	211	1,12	4086	30000		
	7,4	188	1,25	3644	30000		
	8,0	168	1,38	3371	30000		
	3,7	186,123	1,13	7400	50000	IRAM IRFM IRAFM 123 / 132 M 8a	143 346 144 348 145 376
	4,2	167,082	1,26	6519	50000		
	4,6	151,088	1,39	5952	50000		
	5,7	122,480	1,85	4804	50000		
	6,2	111,746	1,94	4416	50000		
	7,0	100,314	2,20	3911	50000		
	4,8	186,123	1,45	5704	50000		
	5,4	167,082	1,62	5070	50000		
	5,9	151,088	1,79	4641	50000		
	7,3	122,480	2,40	3751	50000		
	8,0	111,746	2,50	3422	50000		
	9,0	100,314	2,80	3042	48000		
	10	90,712	3,00	2738	48000		
	12	75,766	3,70	2282	48000		
	5,5	256,048	0,86	4975	30000	IRAM IRFM IRAFM 103 / 100 L 4b	140 308 141 310 142 312
	6,2	225,112	0,93	4413	30000		
	6,7	207,689	1,00	4084	30000		
	7,6	184,584	1,14	3600	29700		
	8,5	165,496	1,28	3219	29700		
	10	140,701	1,54	2736	29700		
	11	126,151	1,69	2487	29700		
	12	113,930	1,91	2280	29700		
	14	103,519	2,10	1954	29700		
	15	94,544	2,30	1824	29450		
	16	86,727	2,40	1710	29450		
	18	77,321	2,70	1521	29450		
	20	68,283	3,10	1369	29450		
	23	60,691	3,50	1190	29300		
	8,9	156,82	0,91	3074	22000	IRAM IRFM IRAFM 93 / 100 L 4b	137 177 139 184
	11	131,17	1,09	2581	22000		
	12	120,68	1,17	2359	22000		
	13	110,02	1,30	2154	22000		
	14	96,96	1,46	1900	22000		
	16	86,16	1,65	1689	21750		
	18	77,10	1,83	1512	21750		



P ₁	n ₂	i	S _f	M ₂	F _{Q1/2}				
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo			
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type			
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ			
[kW] Hp	[r.p.m]			[Nm]	[N]			 kg	
3 4	20	68,65	1,98	1341	21750	IRAM IRFM IRAFM	93 / 100 L 4b	137 138 139	177 178 184
	23	60,50	2,20	1184	21750				
	26	53,76	2,70	1052	21750				
	29	48,11	3,90	943	21750				
	32	43,29	3,30	847	21500				
	36	39,13	3,60	766	21500				
	39	35,52	4,00	694	21500				
	43	32,34	4,40	633	21500				
	17	82,47	0,92	1609	15900	IRAM IRFM IRAFM	83 / 100 L 4b	134 135 136	93 92 99
	19	74,47	1,03	1440	15800				
	21	66,18	1,14	1303	15700				
	24	59,39	1,31	1140	15700				
	26	53,54	1,39	1052	15700				
	29	48,44	1,57	943	15700				
	31	45,93	1,60	883	15500				
	35	41,22	1,80	782	15500				
	39	37,16	2,00	702	15500				
	43	33,62	2,30	636	15400				
	47	30,08	2,50	582	15400				
	52	27,12	2,80	526	15300				
57	24,54	3,10	480	15100					
63	22,27	3,40	434	14900					
69	20,26	3,70	397	14500					
76	18,47	4,00	360	14250					
83	16,86	4,20	330	14150					
91	15,41	4,30	301	14100					
94	14,89	4,40	296	14050	IRAM IRFM IRAFM	82 / 100 L 4b	134 135 136	89 88 95	
106	13,23	4,80	262	14000					
118	11,87	5,00	236	14000					
27	52,47	0,83	1014	9500	IRAM IRFM IRAFM	73 / 100 L 4b	131 132 133	54 57 60	
30	46,63	0,92	913	9500					
34	41,66	1,02	805	9500					
38	37,38	1,15	720	9500					
45	31,16	1,30	608	9500					
50	27,84	1,45	548	9500					
55	24,97	1,55	498	9500					
62	22,48	1,81	442	9500					
70	20,29	2,00	291	9500					
75	18,35	2,15	365	9500					
85	16,62	2,35	322	9500					
95	15,06	2,80	288	9500					
104	13,53	2,72	269	8800	IRAM IRFM IRAFM	72 / 100 L 4b	131 132 133	52 55 58	
117	12,02	2,78	239	8800					
130	10,74	3,20	214	8800					
150	9,33	3,40	185	8800					
168	8,33	3,64	165	8800					
35	39,887	0,80	782	8450	IRAM IRFM IRAFM	731 / 100 L 4b	128 129 130	54 57 60	
40	35,224	0,88	684	8400					
45	31,308	0,95	608	8400					
50	27,971	1,06	548	8300					
56	25,095	1,17	489	8300					
62	22,590	1,28	442	8200					



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo	
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte	Typ	
[kW] Hp	[r.p.m]			[Nm]	[N]		kg
3 4	65	21,388	1,25	428	8200	IRAM IRFM IRAFM 721 / 100 L 4b	128 52 129 55 130 58
	74	19,021	1,39	376	8150		
	82	17,033	1,55	339	8100		
	91	15,339	1,70	305	8100		
	102	13,731	1,75	273	8000		
	115	12,126	2,10	242	8000		
	125	11,172	2,10	222	8000		
	142	9,866	2,40	196	7900		
	160	8,769	2,50	174	7900		
	179	7,834	2,60	155	7900		
	199	7,029	2,80	140	7800		
	221	6,327	3,20	126	7800		
	47	29,85	0,81	583	4300	IRAM IRFM IRAFM 63 / 100 L 4b	125 37
	55	25,16	0,95	498	4300		
	65	21,50	1,11	421	4300		
	68	20,53	1,17	403	4300		
	77	18,18	1,32	356	4300		
	90	15,59	1,47	315	4300		
	101	13,81	1,68	279	4300		
	47	29,85	0,81	583	4300	IRAM IRFM IRAFM 631 / 100 L 4b	122 37 123 37
	55	25,16	0,95	498	4300		
	65	21,50	1,11	421	4300		
	68	20,53	1,17	403	4300		
	77	18,18	1,32	356	4300		
	90	15,59	1,47	315	4300		
	101	13,81	1,68	279	4300		
	104	13,48	1,54	267	3750	IRAM IRFM IRAFM 62 / 100 L 4b	125 36 126 36 127 40
	115	12,20	1,61	242	3750		
	126	11,10	1,75	221	3750		
	140	10,07	1,90	199	3750		
	150	9,35	1,80	185	3750		
	165	8,51	1,90	168	3750		
	183	7,67	2,00	152	3750		
	197	7,10	2,10	141	3750		
	216	6,48	2,20	129	3750		
	234	5,99	2,30	119	3750		
	245	5,72	3,90	113	3750		
	263	5,32	3,90	106	3750		
	277	5,06	4,20	100	3750		
	312	4,49	4,50	89	3750		
	351	3,99	4,80	79	3750		
	377	3,71	3,50	74	3750		
	426	3,28	3,60	65	3750		
	480	2,91	3,70	58	3750		
	540	2,59	3,70	51	3750		
	573	2,44	3,70	49	3750		
	104	13,48	1,54	267	3750	IRAM IRFM IRAFM 621 / 100 L 4b	122 36 123 36 124 40
	115	12,20	1,61	242	3750		
	126	11,10	1,75	221	3750		
	140	10,07	1,90	199	3750		
	150	9,35	1,80	185	3750		
	165	8,51	1,90	168	3750		



P ₁	n ₂	i	S _f	M ₂	F _{Qv2}		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo	
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte	Typ	
[kW] Hp	[r.p.m]			[Nm]	[N]		kg
3 4	183	7,67	2,00	152	3750	IRAM IRFM IRAFM 621 / 100 L 4b	122 36 123 36 124 40
	197	7,10	2,10	141	3750		
	216	6,48	2,20	129	3750		
	234	5,99	2,30	119	3750		
	245	5,72	3,90	113	3750		
	263	5,32	3,90	106	3750		
	277	5,06	4,20	100	3750		
	312	4,49	4,50	89	3750		
	351	3,99	4,80	79	3750		
	377	3,71	3,50	74	3750		
	426	3,28	3,60	65	3750		
	480	2,91	3,70	58	3750		
	540	2,59	3,70	51	3750		
	573	2,44	3,70	49	3750		
	158	8,88	0,86	176	1950		
	176	7,97	0,88	158	1900		
	195	7,17	0,91	143	1850		
	216	6,47	0,98	129	1850		
	241	5,82	1,00	115	1850	IRAM IRFM IRAFM 52 / 100 L 4b	119 31 120 31 121 33
	267	5,25	1,05	104	1800		
	279	5,03	1,07	100	1800		
	310	4,51	1,17	90	1750		
	345	4,06	1,27	81	1750		
	382	3,66	1,35	73	1750		
	423	3,31	1,45	66	1750		
	458	3,05	1,43	61	1750		
	482	2,90	1,50	58	1750		
	544	2,57	1,61	51	1750		
	265	10,55	1,46	105	1750		
	296	9,47	1,60	94	1700		
	315	8,88	1,56	88	1700		
	351	7,97	1,54	79	1650		
	390	7,17	1,63	71	1600		
	432	6,47	1,74	64	1600		
	481	5,82	1,74	58	1550		
	533	5,25	1,85	52	1550		
	556	5,03	2,00	50	1500	IRAM IRFM IRAFM 52 / 100 L 2a	119 28 120 28
	620	4,51	2,20	45	1500		
	689	4,06	2,30	40	1400		
	763	3,66	2,50	36	1400		
	844	3,31	2,60	33	1350		
4 5,5	2,40	590,59	0,79	14758	70000	IRAM IRFM 151 IR 82 / 112 M 4b	167 570 167 576
	2,95	479,79	1,11	12007	70000		
	3,28	431,48	1,25	10799	70000		
	3,98	355,15	1,48	8899	70000		
	4,83	292,73	1,83	7333	70000		
	5,79	244,27	2,18	6117	70000		
	7,02	201,67	2,60	5046	70000		
	3,2	436	0,88	11069	50000	IRAM IRFM 123 IR 72 / 112 M 4b	163 454 164 456
	3,6	388	0,96	9839	50000		
	4,0	348	1,07	8855	50000		
	4,4	314	1,18	8050	50000		



P ₁	n ₂	i	S _f	M ₂	F _{Qv2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
4 5,5	4,9	285	1,32	7229	50000				
	5,4	259	1,45	6559	50000	IRAM	123 IR 72 / 112 M 4b		
	5,9	236	1,60	6003	50000	IRFM		164	456
	6,5	215	1,76	5449	50000				
						IRAM	151 / 160 M 8a	146	509
	7,7	90,364	2,60	4741	72000	IRFM		147	656
						IRBM			
	4,6	151,088	1,04	7936	48000	IRAM	123 / 160 M 8a	143	370
	7	100,314	1,65	5215	48000	IRFM		144	372
						IRAFM		145	400
	4,8	186,123	1,09	7606	47750		123 / 132 M 6a		
	5,4	167,082	1,22	6760	47750				
	5,9	151,088	1,34	6188	47750	IRAM		143	339
	7,3	122,480	1,80	5001	47750	IRFM		144	341
	8,0	111,746	1,87	4563	46900	IRAFM		145	369
	9,0	100,314	2,10	4056	46900				
	10	90,712	2,30	3651	46900				
	12	75,766	2,80	3042	46750				
	7,6	184,584	0,86	4800	29100		103 / 112 M 4b		
	8,5	165,496	0,96	4292	29100				
	10	140,701	1,16	3648	29100				
	11	126,151	1,27	3316	29100				
	12	113,930	1,43	3040	29000				
	14	103,519	1,54	2606	29000	IRAM		140	315
	15	94,544	1,71	2432	29000	IRFM		141	317
	16	86,727	1,82	2280	29000	IRAFM		142	319
	18	77,321	2,00	2028	29000				
	20	68,283	2,30	1825	29000				
	23	60,691	2,60	1587	28800				
	26	54,223	3,00	1404	28800				
	29	48,648	3,30	1259	28800				
	32	43,792	3,70	1141	28800				
	11	131,17	0,81	3442	21200		93 / 112 M 4b		
	12	120,68	0,88	3145	21200				
	13	110,02	0,97	2873	21200				
	14	96,96	1,10	2533	21200				
	16	86,16	1,23	2252	21200				
	18	77,10	1,37	2016	21000				
	20	68,65	1,48	1788	21000	IRAM		137	184
	23	60,50	1,65	1579	21000	IRFM		138	185
	26	53,76	1,98	1403	20900	IRAFM		139	191
	29	48,11	2,20	1258	20900				
	32	43,29	2,50	1129	20900				
	36	39,13	2,70	1022	20800				
	39	35,52	3,00	926	20800				
	43	32,34	3,30	844	20700				
	47	29,52	3,60	770	20700				
	60	23,38	4,30	618	18000	IRAM	92 / 112 M 4b	137	
	68	20,60	4,50	545	18000	IRFM		138	190
	76	18,31	4,90	488	18000	IRAFM		139	196



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo	
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ	
[kW] Hp	[r.p.m]			[Nm]	[N]		kg
4 5,5	21	66,18	0,85	1737	15400	IRAM IRFM IRAFM 83 / 112 M 4b	134 100
	24	59,39	0,95	1520	15400		
	26	53,54	1,05	1403	15400		
	29	48,44	1,18	1258	15150		
	31	45,93	1,20	1177	15150		
	35	41,22	1,35	1042	15150		
	39	37,16	1,50	935	15150		
	43	33,62	1,76	848	15000		
	47	30,08	1,92	776	15000		
	52	27,12	2,10	702	14950		
	57	24,54	2,30	640	14700		
	63	22,27	2,50	579	14350		
	69	20,26	2,80	529	14250		
	76	18,47	3,00	480	14150		
	83	16,86	3,10	440	13600		
	91	15,41	3,20	401	13600		
	94	14,89	3,30	394	13300		
	106	13,23	3,60	350	13100		
	118	11,87	3,80	314	13000		
	131	10,70	4,20	283	13000		
	145	9,68	4,60	256	13000		
	37	37,38	0,86	987	9300	IRAM IRFM IRAFM 73 / 112 M 4b	131 61
	45	31,16	0,97	811	9300		
	50	27,84	1,08	730	9300		
	55	24,97	1,16	664	9300		
	62	22,48	1,36	589	9300		
	70	20,29	1,50	521	9300		
	75	18,35	1,61	487	9300		
	85	16,62	1,76	429	9300		
	95	15,06	2,10	384	9300		
	104	13,53	2,04	358	8350		
	117	12,02	2,15	318	8350		
	130	10,74	2,40	285	8350		
	150	9,33	2,55	247	8350		
	168	8,33	2,73	221	8350		
	187	7,47	2,91	198	8350		
	208	6,73	3,10	178	8350		
	230	6,07	3,60	161	8350		
	74	19,021	1,05	501	8000		
	82	17,033	1,16	452	7950		
	91	15,339	1,27	407	7950		
	102	13,731	1,31	363	7850	IRAM IRFM IRAFM 72 / 112 M 4b	131 59
	115	12,126	1,54	322	7850		
	125	11,172	1,60	297	7850		
	142	9,866	1,81	261	7750		
	160	8,769	1,87	232	7750		
	179	7,834	1,92	207	7750		
	199	7,029	2,10	186	7750		
	221	6,327	2,30	168	7650		
	245	5,710	2,50	151	7650		
	271	5,164	2,80	137	7600		
	299	4,677	3,00	124	7550		
	74	19,021	1,05	501	8000		
	82	17,033	1,16	452	7950		
	91	15,339	1,27	407	7950		
	102	13,731	1,31	363	7850		
	115	12,126	1,54	322	7850		
	125	11,172	1,60	297	7850		
	142	9,866	1,81	261	7750		
	160	8,769	1,87	232	7750		
	179	7,834	1,92	207	7750		
	199	7,029	2,10	186	7750		
	221	6,327	2,30	168	7650		
	245	5,710	2,50	151	7650		
	271	5,164	2,80	137	7600		
	299	4,677	3,00	124	7550		



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
4 5,5	330	4,240	3,10	112	7550				
	367	3,809	3,10	101	7450	IRAM IRFM IRAFM	721 / 112 M 4b	128	59
	407	3,438	3,10	91	7450			129	61
	450	3,109	3,10	82	7450			130	65
	497	2,816	3,10	75	7400				
	548	2,553	3,10	68	7400				
	65	21,50	0,84	562	3600	IRAM IRFM IRAFM	63 / 112 M 4b	125	44
	68	20,53	0,88	537	3600			126	44
	77	18,18	0,99	474	3600				
	90	15,59	1,10	420	3600				
	101	13,81	1,26	372	3600				
	65	21,50	0,84	562	3600	IRAM IRFM IRAFM	631 / 112 M 4b	122	44
	68	20,53	0,88	537	3600			123	44
	77	18,18	0,99	474	3600				
	90	15,59	1,10	420	3600				
	101	13,81	1,26	372	3600				
	104	13,48	1,15	356	3400	IRAM IRFM IRAFM	62 / 112 M 4b		
	115	12,20	1,21	322	3400				
	126	11,10	1,31	294	3400				
	140	10,07	1,43	265	3400				
	150	9,35	1,35	247	3400				
	165	8,51	1,42	225	3400				
	183	7,67	1,50	202	3400				
	197	7,10	1,60	188	3400				
	216	6,48	1,65	172	3400			125	43
	234	5,99	1,76	158	3400			126	43
	245	5,72	2,90	151	3400			127	45
	263	5,32	2,90	141	3400				
	277	5,06	3,10	134	3400				
	312	4,49	3,40	119	3400				
	351	3,99	3,60	106	3400				
	377	3,71	2,60	98	3400				
	426	3,28	2,70	87	3400				
	480	2,91	2,80	77	3400				
	540	2,59	2,80	69	3400				
	573	2,44	2,80	65	3400				
	104	13,48	1,15	356	3400	IRAM IRFM IRAFM	621 / 112 M 4b		
	115	12,20	1,21	322	3400				
	126	11,10	1,31	294	3400				
	140	10,07	1,43	265	3400				
	150	9,35	1,35	247	3400				
	165	8,51	1,42	225	3400				
	183	7,67	1,50	202	3400			122	43
	197	7,10	1,60	188	3400			123	43
	216	6,48	1,65	172	3400			124	45
	234	5,99	1,76	158	3400				
	245	5,72	2,90	151	3400				
	263	5,32	2,90	141	3400				
	277	5,06	3,10	134	3400				
	312	4,49	3,40	119	3400				
	351	3,99	3,60	106	3400				
	377	3,71	2,60	98	3400				



P ₁	n ₂	i	S _f	M ₂	F _{Q/2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
4	426	3,28	2,70	87	3400	IRAM	621 / 112 M 4b	122	43
	480	2,91	2,80	77	3400	IRFM		123	43
5,5	540	2,59	2,80	69	3400	IRAFM		124	45
	573	2,44	2,80	65	3400				
5,5	3,33	429,06	0,80	14625	65000	IRAM	151 IR 82 / C112 M 4	167	572
	4,03	355,15	1,09	12085	65000	IRFM		167	577
7,5	4,95	288,93	1,34	9839	65000				
	4,2	165,414	1,94	11952	85000	IRAM	181 / 160 M 8b	148	1007
	4,8	145,399	2,10	10458	85000	IRFM		148	1057
	5	138,808	2,30	10039	85000				
	7,7	90,364	1,88	6519	72000	IRAM	151 / 160 M 8b	146	509
						IRFM		146	516
						IRBM		147	656
	10	90,364	2,40	5020	72000	IRAM	151 / 132 M 6b	146	509
	12	75,868	2,90	4183	72000	IRFM		146	516
	13	67,166	3,30	3861	72000	IRBM		147	656
	15	59,978	3,70	3346	72000				
	5,9	151,088	0,98	8508	45210	IRAM	123 / 132 M 6b	143	348
	7,3	122,480	1,31	6876	45210	IRFM		144	350
						IRAFM		145	378
	6,7	209,172	1,10	7492	45210	IRAM	123 / C112 M 4	143	325
						IRFM		144	327
						IRAFM		145	355
	7,5	186,123	1,23	6693	45210		123 / 132 S 4c		
	8,4	167,082	1,37	5976	45210				
	9,2	151,088	1,52	5456	44490				
	11	122,480	1,94	4563	44200				
	12	111,746	2,00	4183	44100	IRAM		143	337
	14	100,314	2,30	3585	43800	IRFM		144	339
	15	90,712	2,50	3346	43700	IRAFM		145	367
	18	75,766	3,00	2789	43570				
	21	66,672	3,40	2390	43180				
	24	59,160	3,80	2092	43180				
	26	52,849	4,30	1931	43180				
	11	126,151	0,92	4560	28500		103 / 132 S 4c		
	12	113,930	1,04	4180	28500				
	14	103,519	1,12	3583	28500				
	15	94,544	1,24	3344	28500				
	16	86,727	1,32	3135	28300				
	18	77,321	1,47	2789	28300	IRAM		140	328
	20	68,283	1,69	2510	28300	IRFM		141	330
	23	60,691	1,91	2182	28300	IRAFM		142	332
	26	54,223	2,20	1931	28000				
	29	48,648	2,40	1731	28000				
	32	43,792	2,70	1569	27900				
	35	39,525	2,90	1434	27900				
	39	35,870	3,20	1287	27900				
	44	31,677	3,70	1141	27750				



P ₁	n ₂	i	S _f	M ₂	F _{Q/2}				
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo			
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type			
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ			
[kW] Hp	[r.p.m]			[Nm]	[N]			kg	
5,5 7,5	14	96,96	0,80	3483	20000	IRAM IRFM IRAFM	93 / 132 S 4c	137 138 139	197 198 204
	16	86,16	0,90	3096	20000				
	18	77,10	1,00	2771	20000				
	20	68,65	1,08	2459	20000				
	23	60,50	1,20	2171	20000				
	26	53,76	1,44	1929	20000				
	29	48,11	1,60	1730	20000				
	32	43,29	1,80	1553	20000				
	36	39,13	1,96	1405	19800				
	39	35,52	2,20	1273	19800				
	43	32,34	2,40	1161	19800				
	47	29,52	2,60	1058	19800				
	52	27,01	2,80	968	19600				
	57	24,76	3,10	888	19600				
	60	23,38	3,10	849	17800				
68	20,60	3,30	749	17600					
76	18,31	3,60	670	17450					
85	16,38	3,90	599	17250					
95	14,74	4,20	536	17100					
105	13,32	4,60	485	17000					
29	48,44	0,86	1730	14800	IRAM IRFM IRAFM	83 / 132 S 4c	134 135 136	102 101 108	
31	45,93	0,87	1618	14800					
35	41,22	0,93	1433	14700					
39	37,16	1,10	1286	14600					
43	33,62	1,28	1167	14500					
47	30,08	1,40	1067	14450					
52	27,12	1,52	965	14250					
57	24,54	1,69	880	14100					
63	22,27	1,85	796	14000					
69	20,26	2,00	727	13750					
76	18,47	2,20	660	13350					
83	16,86	2,30	604	13050					
91	15,41	2,30	551	12800					
94	14,89	2,40	542	12800	IRAM IRFM IRAFM	82 / 132 S 4c	134 135 136	98 97 104	
106	13,23	2,60	481	12200					
118	11,87	2,70	432	12000					
131	10,70	3,10	389	11900					
145	9,68	3,40	351	11650					
159	8,79	3,70	320	11250					
175	8,24	3,80	291	11100					
188	7,43	4,10	271	10900					
215	6,72	4,20	237	10800					
237	6,10	4,50	215	10700					
260	5,55	4,60	196	10600					
277	5,06	4,80	184	10500					
62	22,48	0,99	810	8500	IRAM IRFM IRAFM	73 / 132 S 4c	131 132 133	74 77 80	
70	20,29	1,09	717	8500					
75	18,35	1,17	669	8500					
85	16,62	1,28	591	8500					
95	15,06	1,56	528	8500					



P ₁	n ₂	i	S _f	M ₂	F _{Qv2}		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo	
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte	Typ	
[kW] Hp	[r.p.m]			[Nm]	[N]		kg
5,5 7,5	104	13,53	1,48	492	7870	IRAM IRFM IRAFM 72 / 132 S 4c	131 72
	117	12,02	1,56	437	7870		
	130	10,74	2,40	392	7870		
	150	9,33	1,88	340	7870		
	168	8,33	1,98	303	7870		
	187	7,47	2,12	272	7870		
	208	6,73	2,25	245	7870		
	230	6,07	2,62	222	7870		
	255	5,49	2,70	202	7870		
	280	4,99	2,71	182	7870		
	311	4,49	2,83	164	7870		
	345	4,05	2,98	148	7870		
	381	3,67	3,12	134	7870		
	421	3,32	3,30	121	7870		
	465	3,01	3,40	110	7870		
	512	2,73	3,60	100	7870		
	544	2,57	3,60	94	7870		
	461	6,074	4,90	111	7870		
	510	5,494	5,10	101	7870		
	561	4,995	5,10	91	7870		
	623	4,497	5,20	82	7870		
	691	4,059	5,50	74	7870		
	91	15,339	0,93	560	7800	IRAM IRFM IRAFM 721 / C112 M 4	128 72
	102	13,731	0,95	500	7800		
	125	11,172	1,16	408	7800		
	115	12,126	1,12	443	7600		
	142	9,866	1,32	359	7550		
	160	8,769	1,36	319	7500		
	179	7,834	1,40	285	7450		
	199	7,029	1,56	256	7400		
	221	6,327	1,72	231	7400		
	245	5,710	1,88	208	7350		
	271	5,164	2,10	188	7350		
	299	4,677	2,20	170	7300		
	330	4,240	2,20	157	7280		
	367	3,809	2,20	139	7250		
	407	3,438	2,20	125	7100		
	450	3,109	2,20	113	7100		
	497	2,816	2,20	103	7100		
	548	2,553	2,20	93	7100		
	101	13,81	0,92	512	3300		
	101	13,81	0,92	512	3300		
	115	12,20	0,88	443	3000		
	126	11,10	0,95	404	3000		
	140	10,07	1,04	364	3000		
	150	9,35	0,98	340	3000		
	165	8,51	1,04	309	3000		



P ₁	n ₂	i	S _f	M ₂	F _{Qv2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
5,5 7,5	115	12,20	0,88	443	3000	IRAM	621 / C112 M 4		
	126	11,10	0,95	404	3000	IRFM			
	140	10,07	1,04	364	3000	IRAFM		124	51
	150	9,35	0,98	340	3000	IRAM	621 / C112 M 4	122	49
	165	8,51	1,04	309	3000	IRFM		123	49
						IRAFM		124	51
	394	7,10	2,30	129	3000	IRAM IRFM IRAFM	62 / 132 S 2a		
	432	6,48	2,30	118	3000				
	467	5,99	2,30	109	3000				
	490	5,72	4,20	104	3000			125	39
	526	5,32	4,20	97	3000			126	39
	553	5,06	4,50	92	3000				
	624	4,49	4,80	82	3000			127	41
	702	3,99	5,20	73	3000				
	754	3,71	3,80	68	3000				
	852	3,28	3,90	60	3000				
	394	7,10	2,30	129	3000	IRAM IRFM IRAFM	621 / 132 S 2a		
	432	6,48	2,30	118	3000				
	467	5,99	2,30	109	3000				
	490	5,72	4,20	104	3000			122	39
	526	5,32	4,20	97	3000			123	39
	553	5,06	4,50	92	3000				
	624	4,49	4,80	82	3000			124	41
	702	3,99	5,20	73	3000				
	754	3,71	3,80	68	3000				
	852	3,28	3,90	60	3000				
7,5 10	4,2	165,414	1,42	16298	85000	IRAM	181 / 160 L 8a	148	1029
	4,8	145,399	1,58	14260	85000	IRFM		148	1079
	5	138,808	1,66	13690	85000				
	5,4	165,414	1,82	12676	85000	IRAM IRFM	181 / 160 M 6b		
	6,2	145,399	2,00	11040	85000				
	6,5	138,808	2,10	10531	85000				
	6,8	132,705	2,20	10066	85000				
	7,4	121,763	2,40	9250	85000			148	1010
	8	112,232	2,60	8556	85000			148	1060
	8,5	165,414	2,90	8053	85000				
	9,6	145,399	3,30	7130	85000				
	10	138,808	3,40	6845	85000				
	11	132,705	3,60	6223	85000				
	12	121,763	3,90	5704	85000				
	7,7	90,364	1,38	8890	72000	IRAM IRFM IRBM	151 / 160 L 8a	146	509
								147	656
	10	90,364	1,77	6845	70500	IRAM	151 / 160 M 6b	146	572
	12	75,868	2,10	5704	70500	IRFM		146	579
	13	67,166	2,40	5265	70500	IRBM		147	719
	15	59,978	2,70	4563	70500				
	16	90,364	2,70	4278	70000	IRAM	151 / 132 M 4b	146	504
	19	75,868	3,30	3603	70000	IRFM		146	511
	21	67,166	3,70	3260	70000	IRBM		147	651
	23	59,978	4,10	2976	70000				



P ₁	n ₂	i	S _f	M ₂	F _{Q1/2}						
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo					
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type					
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ					
[kW] Hp	[r.p.m]			[Nm]	[N]		kg				
7,5 10	7,5	186,123	0,90	9127	45210	IRAM IRFM IRAFM	123 / 132 M 4b	143 348			
	8,4	167,082	1,00	8149	45210						
	9,2	151,088	1,11	7440	44490						
	11	122,480	1,42	6223	44200						
	12	111,746	1,47	5704	44100						
	14	100,314	1,68	4889	43800						
	15	90,712	1,83	4563	43300						
	18	75,766	2,20	3803	43180						
	21	66,672	2,50	3260	43180						
	24	59,160	2,80	2852	43180						
	26	52,849	3,10	2633	43180						
	29	47,474	3,40	2360	42900						
	32	42,840	3,80	2139	42720						
	34	40,700	4,00	2013	42720						
	16	86,727	0,97	4275	27000				IRAM IRFM IRAFM	103 / 132 M 4b	140 339
	18	77,321	1,08	3803	27000						
20	68,283	1,24	3422	27000							
23	60,691	1,40	2976	26500							
26	54,223	1,60	2633	26500							
29	48,648	1,76	2360	26100							
32	43,792	1,97	2139	26000							
35	39,525	2,10	1956	25800							
39	35,870	2,40	1755	28500							
44	31,677	2,70	1556	25500							
50	28,155	3,10	1369	25000							
55	25,155	3,40	1245	24500							
62	22,568	3,80	1104	24200							
20	68,65	0,79	3353	19200	IRAM IRFM IRAFM	93 / 132 M 4b	137 208				
23	60,50	0,88	2961	19200							
26	53,76	1,05	2631	19100							
29	48,11	1,17	2359	19000							
32	43,29	1,32	2118	19000							
36	39,13	1,48	1916	19000							
39	35,52	1,60	1736	19000							
43	32,34	1,76	1583	18900							
47	29,52	1,92	1443	18900							
52	27,01	2,10	1320	18800							
57	24,76	2,30	1044	18700							
60	23,38	2,30	1158	17000				IRAM IRFM IRAFM	92 / 132 M 4b	137 213	
68	20,60	2,40	1022	17000							
76	18,31	2,60	914	17000							
85	16,38	2,90	817	16800							
95	14,74	3,10	731	16800							
105	13,32	3,40	662	16700							
127	11,01	4,10	547	16550							
139	10,05	4,40	500	16500							
152	9,20	4,50	457	16500							
39	37,16	0,80	1754	14300	IRAM IRFM IRAFM	83 / 132 M 4b	134 125				
43	33,62	0,94	1591	14150							
47	30,08	1,03	1455	14050							
52	27,12	1,11	1315	13800							
57	24,54	1,24	1200	13500							

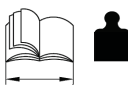


P ₁	n ₂	i	S _f	M ₂	F _{Q/2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte	Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]			kg
7,5 10	63	22,27	1,36	1103	13350			
	69	20,26	1,48	1007	13150	IRAM	83 / 132 M 4b	134 125
	76	18,47	1,60	914	12950	IRFM		135 124
	83	16,86	1,68	837	12500	IRAFM		136 131
	91	15,41	1,72	763	12050			
	94	14,89	1,76	739	12050			
	106	13,23	1,92	655	11800			
	118	11,87	2,00	589	11450			
	131	10,70	2,20	530	11100			
	145	9,68	2,50	479	10850			
	159	8,79	2,70	437	10650			
	175	8,24	2,80	397	10500			
	188	7,43	3,00	370	10400			
	215	6,72	3,10	323	10200			
	237	6,10	3,30	293	10100	IRAM	82 / 132 M 4b	134 121
	260	5,55	3,40	267	10000	IRFM		135 120
	277	5,06	3,50	251	9900	IRAFM		136 127
	303	4,62	3,60	229	9800			
	332	4,22	3,70	209	9650			
	346	4,05	3,80	201	9600			
	380	3,69	4,00	183	9500			
	417	3,37	4,20	167	9500			
	456	3,08	4,40	152	9500			
	478	2,93	4,40	145	9500			
	523	2,67	4,50	133	9500			
	590	2,37	4,60	118	9500			
	69	20,29	0,80	991	7600	IRAM	73 / 132 M 4b	131 85
	76	18,35	0,86	900	7600	IRFM		132 88
	84	16,62	0,94	814	7600	IRAFM		133 91
	93	15,06	1,14	736	7600			
	104	13,53	1,09	671	7500		72 / 132 M 4b	
	117	12,02	1,15	596	7500			
	130	10,74	1,28	535	7500			
	150	9,33	1,36	463	7500			
	168	8,33	1,45	414	7500			
	187	7,47	1,56	371	7500			
	208	6,73	1,65	334	7500			
	230	6,07	1,92	302	7500	IRAM		131 83
	255	5,49	1,98	276	7500	IRFM		132 86
	280	4,99	1,99	248	7500	IRAFM		133 89
	311	4,49	2,08	223	7500			
	345	4,05	2,18	201	7500			
	381	3,67	2,29	182	7500			
	421	3,32	2,43	165	7500			
	465	3,01	2,50	149	7500			
	512	2,73	2,70	136	7500			
	544	2,57	2,70	128	7500			
	461	6,074	3,60	151	7870	IRAM	72 / 132 S 2c	131 72
	510	5,494	3,70	136	7870	IRFM		132 75
	561	4,995	3,70	124	7870	IRAFM		133 78
	623	4,497	3,80	112	7870			
	691	4,059	4,00	101	7870			



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo	
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ	
[kW] Hp	[r.p.m]			[Nm]	[N]		kg
7,5 10	115	12,126	0,82	604	7400		
	142	9,866	0,97	489	7400		
	160	8,769	1,00	434	7370		
	179	7,834	1,03	388	7350		
	199	7,029	1,14	349	7300		
	221	6,327	1,26	314	7300		
	245	5,710	1,38	284	7250	IRAM	128 83
	271	5,164	1,53	256	7250	IRFM	129 86
	299	4,677	1,60	232	7200	IRAFM	130 89
	330	4,240	1,64	211	7170		
	367	3,809	1,64	189	7150		
	407	3,438	1,64	171	7000		
	450	3,109	1,64	154	7000		
	497	2,816	1,64	140	7000		
	548	2,553	1,64	127	7000		
11 15	4,2	165,414	0,97	23903	85000	IRAM	148 1073
	4,8	145,399	1,08	20915	85000	IRFM	148 1123
	5	138,808	1,13	20079	85000		
	5,4	165,414	1,24	18591	85000		
	6,2	145,399	1,36	16192	85000		
	6,5	138,808	1,43	15445	85000	IRAM	148 1035
	6,8	132,705	1,50	14764	85000	IRFM	148 1085
	7,4	121,763	1,64	13567	85000		
	8	112,232	1,77	12549	85000		
	8,5	165,414	1,99	11811	85000		
	9,6	145,399	2,20	10458	85000		
	10	138,808	2,30	10039	84000	IRAM	148 1010
	11	132,705	2,40	9127	84000	IRFM	148 1060
	12	121,763	2,70	8366	84000		
	13	112,232	2,90	7723	83000		
	16	85,188	3,80	6275	83000		
	10	90,364	1,21	10039	69300	IRAM	146 588
	12	75,868	1,43	8366	69300	IRFM	146 595
	13	67,166	1,64	7723	69300	IRBM	147 735
	15	59,878	1,84	6693	69300		
	16	90,364	1,84	6275	69000		
	19	75,868	2,30	5284	69000	IRAM	146 565
	21	67,166	2,50	4781	69000	IRFM	146 572
	23	59,878	2,80	4365	69000	IRBM	147 712
	29	48,796	3,50	3462	69000		
	11	122,480	0,97	9127	47200	IRAM	143 350
	12	111,746	1,00	8366	45700	IRFM	144 352
						IRAFM	145 380
	14	100,314	1,15	7171	44800		
	15	90,712	1,25	6693	44300		
	18	75,766	1,50	5577	43870	IRAM	143 370
	21	66,672	1,70	4781	43180	IRFM	144 372
	24	59,160	1,90	4183	43180	IRAFM	145 400
	26	52,849	2,20	3861	43180		
	29	47,474	2,40	3462	43000		



P ₁	n ₂	i	S _f	M ₂	F _{QV2}				
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte		Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
11 15	32	42,840	2,60	3137	43000				
	34	40,700	2,70	2953	43000	IRAM	123 / 160 M 4b	143	370
	39	36,114	3,00	2574	42880	IRFM		144	372
	43	32,262	3,40	2335	42700	IRAFM		145	400
	48	28,980	3,80	2092	42700				
	23	60,691	0,95	4365	25000				
	26	54,223	1,09	3861	25000				
	29	48,648	1,20	3462	24800				
	32	43,792	1,35	3137	24800				
	35	39,525	1,45	2868	24500				
	39	35,870	1,64	2574	24500	IRAM	103 / 160 M 4b	140	361
	44	31,677	1,84	2282	24200	IRFM		141	363
	50	28,155	2,10	2008	24000	IRAFM		142	365
	55	25,155	2,30	1825	23800				
	62	22,568	2,60	1619	23500				
	69	20,316	2,80	1455	23100				
	76	18,336	3,20	1321	22800				
	84	16,582	3,50	1195	22500				
	93	15,104	3,90	1079	22000				
	79	17,692	3,20	1290	22000	IRAM	102 / 160 M 4b	140	351
						IRFM		141	353
						IRAFM		142	355
	29	48,11	0,80	3459	17800				
	32	43,29	0,90	3135	17800				
	36	39,13	0,98	2787	17600				
	39	35,52	1,09	2572	17500	IRAM	93 / 160 M 4b	137	230
	43	32,34	1,20	2333	17450	IRFM		138	231
	47	29,52	1,30	2135	17250	IRAFM		139	237
	52	27,01	1,41	1929	17150				
	57	24,76	1,55	1760	17000				
	60	23,38	1,55	1698	15400	IRAM	92 / C132 M 4	137	235
						IRFM		138	242
						IRAFM		139	236
	68	20,60	1,66	1499	15150				
	76	18,31	1,80	1341	15000				
	85	16,38	1,95	1199	14800				
	95	14,74	2,10	1073	14600				
	105	13,32	2,30	970	14400	IRAM	92 / 160 M 4b	137	235
	127	11,01	2,80	802	14150	IRFM		138	236
	139	10,05	3,00	733	14000	IRAFM		139	242
	152	9,20	3,10	670	13650				
	168	8,31	3,20	607	13400				
	185	7,54	3,60	551	13000				
	204	6,87	3,90	500	12850				
	223	6,27	4,30	457	12700				
	63	22,27	0,92	1592	12150				
	69	20,26	1,00	1454	12000	IRAM	83 / 160 M 4b	134	131
	76	18,47	1,10	1320	11900	IRFM		135	130
	83	16,86	1,15	1209	11650	IRAFM		136	137
	91	15,41	1,17	1102	11350				



P ₁	n ₂	i	S _f	M ₂	F _{QV2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]			kg
11	94	14,89	1,20	1084	11200	IRAM	82 / C132 M 4	134 127
						IRFM		135 126
15						IRAFM		136 133
							82 / 160 M 4b	
							72 / C132 M 4	
							72 / 132 M 2a	
							181 / 180 L 6a	
							181 / 160 L 4a	



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
15	13	112,232	2,10	10531	82100				
	16	85,188	2,80	8556	82100	IRAM	181 / 160 L 4a	148	1050
20	19	75,308	3,90	7205	81500	IRFM		148	1127
	21	67,935	4,30	6519	81000				
	12	75,868	1,05	11480	69000	IRAM	151 / 180 L 6a	146	644
	13	67,166	1,20	10531	69000	IRFM		146	651
						IRBM		147	791
	16	90,364	1,35	8556	69000		151 / 160 L 4a		
	19	75,868	1,65	7205	68700				
	21	67,166	1,85	6519	68700	IRAM		146	597
	23	59,978	2,10	5952	68700	IRFM		146	604
	29	48,796	2,60	4721	68700	IRBM		147	744
	35	40,390	3,40	3911	68500				
	39	36,323	3,80	3510	68000				
	14	100,314	0,84	9779	45300		123 / 160 L 4a		
	15	90,712	0,92	9127	45200				
	18	75,766	1,10	7606	45000				
	21	66,672	1,25	6519	44800				
	24	59,160	1,39	5704	44400				
	26	52,849	1,58	5265	44250				
	29	47,474	1,72	4721	44000	IRAM		143	385
	32	42,840	1,90	4278	43780	IRFM		144	387
	34	40,700	1,98	4026	43540	IRAFM		145	415
	39	36,114	2,20	3510	43500				
	43	32,262	2,50	3184	43400				
	48	28,980	2,80	2852	42700				
	53	26,151	3,10	2583	41800		122 / 160 L 4a		
	59	23,687	3,40	2320	41000				
	65	21,522	3,70	2106	40000				
	53	26,282	3,00	2622	41800	IRAM	122 / 160 L 4a	143	428
	59	23,766	3,30	2356	41700	IRFM		144	430
	70	19,850	4,00	1985	41600	IRAFM		145	458
	80	17,468	4,50	1737	41500				
	26	54,223	0,80	5265	23000		103 / 160 L 4a		
	29	48,648	0,88	4721	22500				
	32	43,792	0,98	4278	22000				
	35	39,525	1,06	3911	21500				
	39	35,870	1,20	2510	21300				
	44	31,677	1,35	3111	21300	IRAM		140	376
	50	28,155	1,55	2738	21000	IRFM		141	378
	55	25,155	1,70	2489	20800	IRAFM		142	380
	62	22,568	1,90	2208	20500				
	69	20,316	2,10	1984	20000				
	76	18,336	2,30	1801	20000				
	84	16,582	2,60	1630	20000				
	93	15,104	2,90	1472	20000		102 / 160 L 4a		
	79	17,692	2,30	1759	20000	IRAM	102 / 160 L 4a	140	366
	89	15,624	2,70	1562	19500	IRFM		141	368
	101	13,887	3,00	1376	19500	IRAFM		142	370



P ₁	n ₂	i	S _f	M ₂	F _{Q1/2}									
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo								
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type								
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ								
[kW] Hp	[r.p.m]			[Nm]	[N]			kg						
15	113	12,407	3,40	1230	19000	IRAM	102 / 160 L 4a	140	366					
	132	10,585	4,10	1053	19000	IRFM		141	368					
	20	148	4,50	939	18000	IRAFM		142	370					
	68	20,60	1,21	2043	14000	IRAM IRFM IRAFM	92 / 160 L 4a							
	76	18,31	1,32	1828	13900									
	85	16,38	1,43	1635	13800									
	95	14,74	1,54	1463	13750									
	105	13,32	1,70	1323	13600									
	127	11,01	2,00	1094	13500									
	139	10,05	2,20	1000	13500									
	152	9,20	2,30	914	13300									
	168	8,31	2,40	827	13200									
	185	7,54	2,60	751	13050									
	204	6,87	2,90	681	12900									
	223	6,27	3,20	623	12800									
	244	5,74	3,30	569	12600									
	266	5,26	3,30	522	12500									
	316	4,43	3,60	440	12400									
		83	16,86	0,84	1648					10350	IRAM IRFM IRAFM	83 / 160 L 4a		
		91	15,41	0,86	1503					10100				
		106	13,23	0,96	1311					9900	IRAM IRFM IRAFM	82 / 160 L 4a		
		118	11,87	1,01	1178					9700				
131		10,70	1,14	1061	9650									
145		9,68	1,25	958	9600									
159		8,79	1,35	874	9500									
175		8,24	1,39	794	9300									
188		7,43	1,50	739	9200									
215		6,72	1,54	646	9050									
237		6,10	1,65	586	8950									
260		5,55	1,70	534	8850									
277		5,06	1,75	502	8800									
303		4,62	1,80	459	8700									
332		4,22	1,85	419	8600									
346		4,05	1,90	402	8500									
380		3,69	2,00	366	8350									
417		3,37	2,10	333	8300									
456		3,08	2,20	305	8250									
478		2,93	2,20	291	8250									
523		2,67	2,30	266	8250									
590		2,37	2,30	236	8250									
18,5 25	8,5	165,414	1,18	19864	82900	IRAM IRFM	181 / 180 M 4b							
	9,6	145,399	1,33	17588	82900									
	10	138,808	1,38	16884	82200									
	11	132,705	1,45	15349	82200									
	12	121,763	1,58	14070	82200									
	13	112,232	1,70	12988	81000									
	16	85,188	2,30	10553	81000									
	19	75,308	3,20	8886	80400									
	21	67,935	3,50	8040	79900									
	28	50,881	4,60	6030	79700									
	31	45,734	5,20	5447	79100									



P ₁	n ₂	i	S _f	M ₂	F _{Q/2}		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo	
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ	
[kW] Hp	[r.p.m]			[Nm]	[N]		kg
18,5 25	16	90,364	1,09	10553	68600	IRAM IRFM IRBM 151 / 180 M 4b	146 617 146 624 147 764
	19	75,868	1,34	8886	68600		
	21	67,166	1,50	8040	68600		
	23	59,978	1,66	7341	68600		
	29	48,796	2,10	5822	68600		
	35	40,390	2,80	4824	68300		
	39	36,323	3,10	4329	68300		
	43	32,859	3,40	3927	67500		
	47	29,873	3,80	3592	67500		
	51	27,273	4,10	3311	67000		
	18	75,766	0,89	9380	44380		
	21	66,672	1,01	8040	44350		
	24	59,160	1,13	7035	44300		
	26	52,849	1,28	6494	44250		
	29	47,474	1,40	5822	44150	IRAM IRFM IRAFM 123 / 180 M 4b	143 407 144 409 145 437
	32	42,840	1,55	5276	44100		
	34	40,700	1,60	4966	43540		
	39	36,114	1,78	4329	43500		
	43	32,262	2,00	3927	43400		
	48	28,980	2,30	3518	42800		
	53	26,151	2,50	3186	42300		
	59	23,687	2,70	2862	41500		
	65	21,522	3,00	2598	41500		
	71	19,604	3,30	2378	41500		
	78	17,894	3,60	2165	41500		
	53	26,282	2,40	3234	40000	IRAM IRFM IRAFM 122 / C160 L 4	143 438 144 440
	59	23,766	2,60	2905	40000		
	70	19,850	3,20	2449	41700	IRAM IRFM IRAFM 122 / 180 M 4b	143 448 144 450 145 478
	80	17,468	3,60	2143	41600		
	90	15,500	4,10	1905	41500		
	101	13,846	4,60	1697	41370		
	35	39,525	0,86	4824	21000	IRAM IRFM IRAFM 103 / 180 M 4b	140 398 141 400 142 402
	39	35,870	0,97	4329	20450		
	44	31,677	1,09	3837	20100		
	50	28,155	1,25	3377	19800		
	55	25,155	1,38	3070	19600		
	62	22,568	1,54	2723	19000		
	69	20,316	1,70	2447	19000		
	76	18,336	1,90	2222	18900		
	84	16,582	2,10	2010	18900		
	93	15,104	2,30	1816	18700		
	79	17,692	1,90	2170	18500	IRAM IRFM IRAFM 102 / 180 M 4b	140 388 141 390 142 392
	89	15,624	2,30	1976	18500		
	101	13,887	2,40	1697	18250		
	113	12,407	2,70	1517	18100		
	132	10,585	3,30	1299	18000		
	148	9,457	3,70	1158	17900		
	165	8,485	4,10	1039	17700		
	183	7,638	4,10	937	17700		
	196	7,144	4,20	875	17500		



P ₁	n ₂	i	S _f	M ₂	F _{Q1/2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]			kg
18,5 25	85	16,38	1,16	2016	12900	IRAM IRFM IRAFM	92 / 180 M 4b	137 272 138 273 139 279
	95	14,74	1,25	1804	12750			
	105	13,32	1,38	1632	12650			
	127	11,01	1,65	1349	12450			
	139	10,05	1,78	1233	12350			
	152	9,20	1,82	1127	12200			
	168	8,31	1,90	1020	12100			
	185	7,54	2,10	926	12050			
	204	6,87	2,30	840	12000			
	223	6,27	2,60	768	11850			
	244	5,74	2,70	702	11800			
	266	5,26	2,70	644	11750			
	316	4,43	2,90	542	11750			
	343	4,08	3,00	500	11600			
	373	3,75	3,40	459	11500			
	391	3,58	3,50	438	11850			
	464	3,10	3,50	369	11850			
	504	2,78	3,50	340	11850			
	548	2,55	3,60	313	11850			
	571	2,45	3,60	300	11850			
	131	10,70	0,92	1308	9400	IRAM IRFM IRAFM	82 / 180 M 4b	134 179 135 178 136 185
	145	9,68	1,01	1182	9300			
	159	8,79	1,10	1078	9250			
	188	7,43	1,22	912	9050			
	215	6,72	1,25	797	8950			
	237	6,10	1,34	723	8850			
	260	5,55	1,38	659	8750			
	277	5,06	1,42	619	8650			
	303	4,62	1,46	566	8550			
	332	4,22	1,50	516	8400			
	346	4,05	1,54	495	8250			
	380	3,69	1,62	451	8150			
	417	3,37	1,70	411	8050			
	456	3,08	1,78	376	8000			
478	2,93	1,78	359	8000				
523	2,67	1,82	328	8000				
590	2,37	1,86	290	8000				
22 30	8,5	165,414	1,00	23622	81500	IRAM IRFM	181 / 180 L 4b	148 1170 148 1182
	9,6	145,399	1,12	20915	81500			
	10	138,808	1,16	20079	80800			
	11	132,705	1,22	18253	80800			
	12	121,763	1,33	16732	80800			
	13	112,232	1,43	15445	79600			
	16	85,188	1,91	12549	79500			
	19	75,308	2,70	10568	78900			
	21	67,935	2,90	9561	78400			
	28	50,881	3,90	7171	78200			
	31	45,734	4,40	6477	77600			
	16	90,364	0,92	12549	68000	IRAM IRFM IRBM	151 / 180 L 4b	146 642 146 649 147 789
	19	75,868	1,13	10568	68000			
	21	67,166	1,26	9561	68000			
	23	59,978	1,40	8730	67700			
	29	48,796	1,74	6924	67500			



P ₁	n ₂	i	S _f	M ₂	F _{QV2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Tipo	
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Type	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte		Typ	
[kW] Hp	[r.p.m]			[Nm]	[N]			kg
22 30	35	40,390	2,40	5737	67500			
	39	36,323	2,60	5148	67000			
	43	32,859	2,80	4669	66800	IRAM	151 / 180 L 4b	146 642
	47	29,873	3,20	4272	66800	IRFM		146 649
	51	27,273	3,50	3937	66500	IRBM		147 789
	56	24,833	3,80	3585	66000			
	62	22,671	4,10	3238	65000			
	21	66,672	0,85	9561	44000		123 / 180 L 4b	
	24	59,160	0,95	8366	44000			
	26	52,849	1,08	7723	44000			
	29	47,474	1,18	6924	44000			
	32	42,840	1,30	6275	43900			
	34	40,700	1,35	5905	43700			
	39	36,114	1,50	5148	43600	IRAM		143 421
	43	32,262	1,70	4669	43400	IRFM		144 423
	48	28,980	1,90	4183	43000	IRAFM		145 451
	53	26,151	2,10	3788	42500			
	59	23,687	2,30	3403	42000			
	65	21,522	2,50	3089	41500			
	71	19,604	2,80	2828	41500			
	78	17,894	3,10	2574	41500			
	70	19,850	2,70	2912	41000		122 / 180 L 4b	
	80	17,468	3,00	2548	41000	IRAM		143 473
	90	15,500	3,50	2265	41000	IRFM		144 475
	101	13,846	3,90	2018	41000	IRAFM		145 503
	112	12,438	4,30	1820	40140			
	122	11,495	4,60	1671	40140			
	44	31,677	0,92	4563	20000		103 / 180 L 4b	
	50	28,155	1,05	4016	19500			
	55	25,155	1,16	3651	19500	IRAM		140 412
	62	22,568	1,30	3238	19100	IRFM		141 414
	69	20,316	1,43	2910	19000	IRAFM		142 416
	76	18,336	1,60	2642	18700			
	84	16,582	1,77	2390	18500			
	93	15,104	1,98	2159	18000			
	79	17,692	1,60	2580	17600		102 / 180 L 4b	
	89	15,624	1,92	2290	17200			
	101	13,887	2,10	2018	17000			
	113	12,407	2,30	1804	16700			
	132	10,585	2,80	1544	16500			
	148	9,457	3,10	1377	16300			
	165	8,485	3,40	1235	16000			
	183	7,638	3,50	1114	16000	IRAM		140 402
	196	7,144	3,60	1040	16000	IRFM		141 404
	219	6,382	3,70	931	15700	IRAFM		142 406
	244	5,726	3,80	835	15700			
	272	5,154	3,90	749	15700			
	301	4,652	4,10	677	15500			
	333	4,207	4,20	612	15500			
	376	3,723	3,90	542	15500			
	417	3,360	4,00	489	15000			
	461	3,039	4,00	442	15000			



P ₁	n ₂	i	S _f	M ₂	F _{QV2}				
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte		Typ		
[kW]	[r.p.m]			[Nm]	[N]				kg
Hp									
22 30	509	2,752	4,10	400	15000	IRAM	102 / 180 L 4b	140	402
	561	2,495	4,10	363	15000	IRFM		141	404
	619	2,263	4,10	329	15000	IRAFM		142	406
	105	13,32	1,16	1941	12100		92 / 180 L 4b		
	127	11,01	1,39	1605	11800	IRAM		137	286
	139	10,05	1,50	1466	11700	IRFM		138	287
	152	9,20	1,53	1341	11500	IRAFM		139	293
	168	8,31	1,60	1213	11100				
	185	7,54	1,79	1102	10900				
	204	6,87	1,96	999	10900		92 / 180 L 4b		
	223	6,27	2,20	914	10800				
	244	5,74	2,20	835	10700				
	266	5,26	2,30	766	10600				
	316	4,43	2,40	645	10600	IRAM		137	286
	343	4,08	2,50	594	10500	IRFM		138	287
	373	3,75	2,90	546	10500	IRAFM		139	293
	391	3,58	2,90	521	10500				
	464	3,10	2,90	439	10500				
	504	2,78	3,00	404	10500				
	548	2,55	3,00	372	10500				
	571	2,45	3,00	357	10500				
	215	6,72	1,05	948	8750		82 / 180 L 4b		
	237	6,10	1,12	860	8600				
	260	5,55	1,16	784	8450				
	277	5,06	1,19	736	8350				
	303	4,62	1,23	673	8250				
	332	4,22	1,26	614	8050	IRAM		134	193
	346	4,05	1,30	589	7900	IRFM		135	192
	380	3,69	1,36	536	7800	IRAFM		136	199
	417	3,37	1,43	489	7700				
	456	3,08	1,50	447	7600				
	478	2,93	1,50	426	7600				
	523	2,67	1,53	390	7600				
	590	2,37	1,57	345	7600				
30 40	16	85,188	1,40	17112	78100		181 / 200 L 4c		
	19	75,308	1,97	14411	77500				
	21	67,935	2,20	13038	77000				
	28	50,881	2,80	9779	76800	IRAM		148	1210
	31	45,734	3,20	8832	76200	IRFM		148	1228
	34	41,350	3,50	8053	76000				
	37	37,963	4,50	7400	75500				
	41	34,324	4,90	6678	75000				
	29	48,796	1,28	9441	66000		151 / 200 L 4c		
	39	36,323	1,90	7021	66000				
	43	32,859	2,10	6367	65400				
	47	29,873	2,40	5826	65200	IRAM		146	697
	51	27,273	2,50	5369	65000	IRFM		146	704
	56	24,833	2,80	4889	64900	IRBM		147	844
	62	22,671	3,00	4416	64500				
	70	20,772	3,30	3911	64200				
	73	19,089	3,60	3751	64000				



P ₁	n ₂	i	S _f	M ₂	F _{Q/2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle	Übersetzung	Betriebsfaktor	Abtriebswelle	Querkräfte				
	Drehzahlen			Drehmomente					
[kW]	[r.p.m]			[Nm]	[N]				kg
Hp									
30	75	18,795	3,50	3651	63000	IRAM	151 / 200 L 4c	146	697
	82	17,002	3,90	3339	63000	IRFM		146	704
40	87	16,126	4,30	3147	62400	IRBM		147	844
	29	47,474	0,86	9441	44250		123 / 200 L 4c		
	32	42,840	0,95	8556	44250				
	34	40,700	0,99	8053	44000				
	39	36,114	1,10	7021	44000				
	43	32,262	1,25	6367	43990	IRAM		143	453
	48	28,980	1,39	5704	43970	IRFM		144	455
	53	26,151	1,54	5166	43000	IRAFM		145	483
	59	23,687	1,69	4641	42000				
	65	21,522	1,85	4212	42000				
	71	19,604	2,10	3856	41500				
	78	17,894	2,30	3510	41500				
	80	17,468	2,20	3475	42000		122 / 200 L 4c		
	90	15,500	2,50	3089	42000				
	101	13,846	2,80	2752	41800				
	112	12,438	3,20	2482	40500				
	122	11,495	3,40	2278	40500				
	137	10,200	3,80	2029	40210				
	154	9,112	4,20	1805	39100				
	171	8,185	4,30	1626	38900	IRAM		143	528
	181	7,724	4,40	1536	38440	IRFM		144	530
	202	6,938	4,40	1376	38000	IRAFM		145	558
	224	6,261	4,40	1241	37800				
	247	5,671	4,40	1125	37400				
	272	5,153	4,30	1022	37400				
	298	4,694	4,30	933	37400				
	327	4,284	4,30	850	37400				
	357	3,917	4,30	779	37400				
	390	3,585	4,30	713	37400				
	426	3,284	4,30	653	37400				
	62	22,57	0,95	4416	15900	IRAM	103 / 200 L 4c	140	444
	69	20,32	1,05	3968	15900	IRFM		141	446
	76	18,34	1,17	3603	15900	IRAFM		142	448
	84	16,58	1,30	3260	15900				
	93	15,10	1,45	2944	15900				
	89	15,624	1,41	3123	15700		102 / 200 L 4c		
	101	13,887	1,50	2752	15700				
	113	12,407	1,69	2460	15500				
	132	10,585	2,00	2106	15100				
	148	9,457	2,30	1878	15100				
	165	8,485	2,50	1685	14800				
	183	7,638	2,60	1519	14500	IRAM		140	434
	196	7,144	2,60	1418	14500	IRFM		141	436
	219	6,382	2,70	1269	14500	IRAFM		142	438
	244	5,726	2,80	1139	14500				
	272	5,154	2,80	1022	14350				
	301	4,652	3,00	923	14100				
	333	4,207	3,00	835	14100				
	376	3,723	2,90	739	14100				
	417	3,360	2,90	667	14100				



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
30 40	461	3,039	2,90	603	13850	IRAM IRFM IRAFM	102 / 200 L 4c	140	434
	509	2,752	3,00	546	13850			141	436
	561	2,495	3,00	495	13850			142	438
	619	2,263	3,00	449	13850				
	204	6,87	1,43	1362	10600	IRAM IRFM IRAFM	92 / 200 L 4c		
	223	6,27	1,57	1246	10500				
	244	5,74	1,63	1139	10500				
	266	5,26	1,66	1045	10350				
	316	4,43	1,78	879	10200			137	318
	343	4,08	1,82	810	10100			138	319
	373	3,75	2,10	745	10000			139	325
	391	3,58	2,10	711	10000				
	464	3,10	2,10	599	10000				
	504	2,78	2,20	551	10000				
	548	2,55	2,20	507	10000				
	571	2,45	2,20	487	10000				
37 50	19	75,308	1,60	17773	76700	IRAM IRFM	181 / 225 S 4a		
	21	67,935	1,75	16080	76100				
	28	50,881	2,30	12060	75600				
	31	45,734	2,60	10893	75400			148	1250
	34	41,350	2,80	9932	74800			148	1280
	37	37,963	3,60	9127	74600				
	41	34,324	4,00	8236	74100				
	45	31,187	4,40	7504	73600				
	49	28,454	4,90	6892	73600				
	29	48,796	1,03	11644	64750				
	39	36,323	1,55	8659	64750				
	43	32,859	1,69	7853	64100				
	47	29,873	1,90	7185	63900				
	51	27,273	2,10	6621	63650				
	56	24,833	2,30	6030	63500	IRAM IRFM IRBM	151 / 225 S 4a	146	722
	62	22,671	2,40	5447	63300			146	729
	70	20,772	2,70	4824	63000			147	869
	73	19,089	2,90	4626	63000				
	75	18,795	2,80	4502	62700				
	82	17,002	3,20	4118	62500				
	87	16,126	3,50	3881	62200				
	93	15,003	3,70	3631	61900				
	98	14,363	3,70	3446	61700				
	106	13,200	4,10	3186	61500				
	39	36,114	0,89	8659	44000	IRAM IRFM IRAFM	123 / 225 S 4a		
	43	32,262	1,01	7853	44000				
	48	28,980	1,13	7035	43970			143	519
	53	26,151	1,25	6371	42300			144	521
	59	23,687	1,38	5724	41500			145	549
	65	21,522	1,50	5195	41000				
	71	19,604	1,66	4756	41000				
	78	17,894	1,82	4329	41500				
	80	17,468	1,82	4285	41000	IRAM IRFM IRAFM	122 / 225 S 4a	143	513
	90	15,500	2,00	3809	41000			144	515
	101	13,846	2,30	3394	40900			145	543
	112	12,438	2,60	3061	40140				



P ₁	n ₂	i	S _f	M ₂	F _{Q1/2}						
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo					
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type					
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ					
[kW] Hp	[r.p.m]			[Nm]	[N]			 kg			
37 50	122	11,495	2,70	2810	40140	IRAM IRFM IRAFM	122 / 225 S 4a	143 513			
	137	10,200	3,10	2502	40210						
	154	9,112	3,40	2226	39100						
	171	8,185	3,50	2005	38900						
	181	7,724	3,60	1894	38440						
	202	6,938	3,60	1697	38000						
	224	6,261	3,60	1530	37800						
	247	5,671	3,60	1388	37400						
	272	5,153	3,50	1260	37400						
	298	4,694	3,50	1150	37400						
	327	4,284	3,50	1048	37400						
	357	3,917	3,50	960	37400						
	390	3,585	3,50	879	37400						
	426	3,284	3,50	805	37400						
	89	15,624	1,14	3852	15000				IRAM IRFM IRAFM	102 / 225 S 4a	140 460
	101	13,887	1,22	3394	14600						
	113	12,407	1,37	3034	14600						
	132	10,585	1,65	2597	14350						
	148	9,457	1,85	2316	14350						
	165	8,485	2,00	2078	14100						
	183	7,638	2,10	1873	14100						
	196	7,144	2,10	1749	14100						
	219	6,382	2,20	1565	14100						
	244	5,726	2,20	1405	13800						
	272	5,154	2,30	1260	13800						
	301	4,652	2,40	1139	13800						
	333	4,207	2,50	1030	13800						
	376	3,723	2,30	912	13500						
	417	3,360	2,40	822	13500						
	461	3,039	2,40	744	13500						
	509	2,752	2,40	674	13450						
	561	2,495	2,40	611	13300						
	619	2,263	2,40	554	13200						
45 60	21	67,935	1,44	19557	75340	IRAM IRFM	181 / 225 M 4c	148 1274			
	28	50,881	1,89	14668	74740						
	31	45,734	2,10	13248	74240						
	34	41,350	2,30	12079	74040						
	37	37,963	3,00	11100	73440						
	41	34,324	3,30	10017	73240						
	45	31,187	3,60	9127	72740						
	49	28,454	4,00	8382	72240						
	54	26,053	4,30	7606	72240						
	65	21,694	5,20	6318	72000						
	70	19,923	5,70	5867	71500						
	43	32,859	1,39	9551	63100	IRAM IRFM IRBM	151 / 225 M 4c	146 777			
	47	29,873	1,57	8738	62900						
	51	27,273	1,70	8053	62650						
	56	24,833	1,85	7334	62500						
	62	22,671	2,00	6624	62300						
	70	20,772	2,20	5867	62000						
	73	19,089	2,40	5626	62000						
	75	18,795	2,30	5476	61700						
	82	17,002	2,60	5009	61500						



P ₁	n ₂	i	S _f	M ₂	F _{Qv2}		Tipo		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial		Type		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads		Typ		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkkräfte				
[kW] Hp	[r.p.m]			[Nm]	[N]				kg
45 60	87	16,126	2,80	4721	61200				
	93	15,003	3,10	4416	60900				
	98	14,363	3,10	4191	60700	IRAM	151 / 225 M 4c	146	777
	106	13,200	3,30	3875	60500	IRFM		146	784
	114	12,280	3,50	3603	60000	IRBM		147	924
	123	11,388	3,60	3390	60000				
	124	11,285	3,90	3312	60000				
	135	10,344	3,90	3089	60000				
	48	28,980	0,93	8556	43970				
	53	26,151	1,03	7749	42500	IRAM	123 / 225 M 4c	143	551
	59	23,687	1,12	6961	41500	IRFM		144	553
	65	21,522	1,23	6318	41500	IRAFM		145	581
	71	19,604	1,37	5785	41500				
	78	17,894	1,50	5265	41500				
	80	17,468	1,50	5212	40200				
	90	15,500	1,70	4633	40200				
	101	13,846	1,90	4128	40200				
	112	12,438	2,10	3723	40200				
	122	11,495	2,30	3418	40140				
	137	10,200	2,50	3043	40210				
	154	9,112	2,80	2707	39100				
	171	8,185	2,90	2438	38900	IRAM	122 / 225 M 4c	143	608
	181	7,724	2,90	2304	38440	IRFM		144	610
	202	6,938	2,90	2064	38000	IRAFM		145	638
	224	6,261	2,90	1861	37800				
	247	5,671	2,90	1688	36200				
	272	5,153	2,90	1533	36200				
	298	4,694	2,90	1399	36200				
	327	4,284	2,90	1275	36200				
	357	3,917	2,90	1168	36000				
	390	3,585	2,90	1069	36000				
	426	3,284	2,90	979	36000				
55 75	101	13,887	1,00	4128	14000				
	113	12,407	1,12	3690	14000				
	132	10,585	1,35	3159	14000				
	148	9,457	1,52	2817	14000				
	165	8,485	1,68	2527	13800				
	183	7,638	1,71	2278	13800				
	196	7,144	1,76	2127	13800				
	219	6,382	1,80	1904	13500	IRAM	102 / 225 M 4c	140	561
	244	5,726	1,85	1709	13500	IRFM		141	563
	272	5,154	1,90	1533	13500	IRAFM		142	565
	301	4,652	2,00	1385	13500				
	333	4,207	2,00	1252	13500				
	376	3,723	1,90	1109	13500				
	417	3,360	1,96	1000	13300				
	461	3,039	1,96	904	13300				
	509	2,752	2,00	819	13000				
	561	2,495	2,00	743	13000				
	619	2,263	2,00	674	13000				
	28	50,881	1,55	17927	73380	IRAM	181 / C225 M 4	148	1265
						IRFM		148	1290



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo	
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ	
[kW] Hp	[r.p.m]			[Nm]	[N]		kg
55 75	31	45,734	1,75	16192	72880	IRAM IRFM 181 / 250 M 4c	148 1265 148 1290
	34	41,350	1,92	14764	72680		
	37	37,963	2,40	13567	72080		
	41	34,324	2,70	12243	71880		
	45	31,187	2,90	11155	71380		
	49	28,454	3,30	10244	70880		
	54	26,053	3,50	9296	70880		
	65	21,694	4,20	7723	70640		
	70	19,923	4,60	7171	70140		
	76	18,344	5,00	6605	70100		
	83	16,926	5,40	6048	70050		
	87	16,027	5,90	5858	70000		
	90	15,544	4,00	5577	70000		
	101	13,912	4,60	5046	70000		
	47	29,873	1,28	10680	61450		
	51	27,273	1,39	9842	61200		
	56	24,833	1,51	8964	61050		
	62	22,671	1,65	8096	60850		
	70	20,772	1,81	7171	60550		
	73	19,089	1,96	6876	60550		
	75	18,795	1,92	6693	60250		
	82	17,002	2,10	6122	60050		
	87	16,126	2,30	5770	59750		
	93	15,003	2,50	5397	59450		
	98	14,363	2,50	5122	59250		
	106	13,200	2,70	4736	59050		
	114	12,280	2,90	4403	58550		
	123	11,388	2,90	4143	58550		
	124	11,285	3,20	4048	58500		
	135	10,344	3,20	3775	58500		
	148	9,435	3,50	3443	58000		
	155	9,023	3,70	3288	57800		
	162	8,636	3,80	3146	57500		
	177	7,928	4,20	2879	57000		
	80	17,468	1,23	6370	40500		
	90	15,500	1,39	5662	40500		
	101	13,846	1,55	5046	40500		
	112	12,438	1,75	4550	40140		
	122	11,495	1,85	4177	40140		
	137	10,200	2,10	3720	40210		
	154	9,112	2,30	3309	39100		
	171	8,185	2,30	2980	38900		
	181	7,724	2,30	2816	38440		
	202	6,938	2,30	2523	38000		
	224	6,261	2,40	2275	35600		
	247	5,671	2,40	2063	35600		
	272	5,153	2,30	1874	35600		
	298	4,694	2,30	1710	35600		
	327	4,284	2,30	1558	35000		
	357	3,917	2,30	1427	35000		
	390	3,585	2,30	1307	35000		
	426	3,284	2,30	1196	35000		



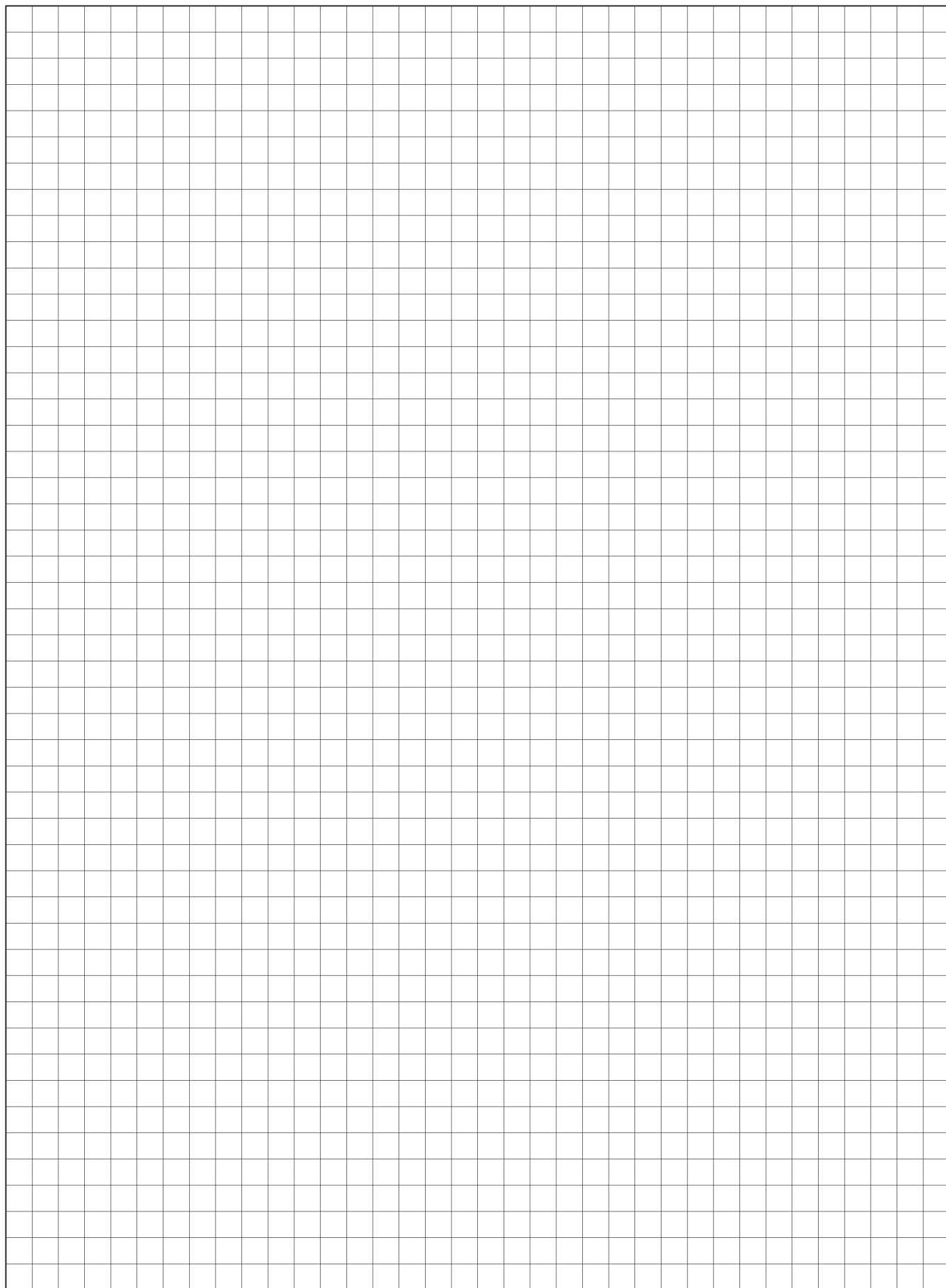
P ₁	n ₂	i	S _f	M ₂	F _{QV2}		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo	
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ	
[kW] Hp	[r.p.m]			[Nm]	[N]		kg
75 100	34	41,350	1,41	20132	71200	IRAM IRFM 181 / 280 S 4	148 1395 148 1420
	37	37,963	1,79	18500	70600		
	41	34,324	1,96	16695	70400		
	45	31,187	2,20	15211	69900		
	49	28,454	2,40	13969	69400		
	54	26,053	2,60	12676	69400		
	65	21,694	3,10	10531	69160		
	76	18,344	3,70	9007	68660		
	83	16,926	4,00	8247	68620		
	87	16,027	2,90	7988	68570		
	90	15,544	4,30	7606	68520		
	101	13,912	3,40	6880	68520		
	115	12,200	3,80	6043	68520		
	130	10,785	4,30	5346	68520		
	70	20,772	1,33	9779	59400	IRAM IRFM IRBM 151 / 280 S 4	146 1006 146 1013 147 1153
	73	19,089	1,44	9377	59400		
	75	18,795	1,41	9127	59100		
	82	17,002	1,56	8348	58900		
	87	16,126	1,72	7868	58600		
	93	15,003	1,84	7360	58600		
	98	14,363	1,84	6985	58100		
	106	13,200	2,00	6458	57900		
	114	12,280	2,10	6004	57400		
	124	11,285	2,30	5520	57300		
	135	10,344	2,40	5148	57300		
	148	9,435	2,60	4695	57300		
	155	9,023	2,70	4483	56150		
	162	8,636	2,80	4290	56150		
	177	7,928	3,10	3926	56000		
	183	7,639	2,80	3797	56000		
	192	7,297	3,30	3619	55400		
	201	6,967	3,00	3457	55100		
	210	6,663	3,00	3309	55000		
	220	6,377	3,10	3159	54800		
	239	5,854	3,30	2908	54800		
	257	5,454	3,00	2704	54500		
	268	5,220	3,10	2593	54000		
	292	4,792	3,30	2380	54000		
	372	3,759	3,80	1868	54000		
90 120	41	34,324	1,64	20034	68680	IRAM IRFM 181 / 280 M 4	148 1449 148 1474
	45	31,187	1,81	18253	68180		
	49	28,454	2,00	16763	67680		
	54	26,053	2,20	15211	67680		
	65	21,694	2,60	12637	67440		
	70	19,923	2,80	11734	66940		
	76	18,344	3,10	10808	66900		
	83	16,926	3,30	9896	66850		
	87	16,027	2,40	9585	66800		
	90	15,544	3,60	9127	66800		
	101	13,912	2,80	8257	66500		
	115	12,200	3,20	7251	66300		
	130	10,785	3,60	6415	66150		
	146	9,597	4,00	5712	66000		



P ₁	n ₂	i	S _f	M ₂	F _{QV2}		
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo	
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type	
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ	
[kW] Hp	[r.p.m]			[Nm]	[N]		kg
90 120	82	17,002	1,30	10017	57900	IRAM IRFM IRBM 151 / 280 M 4	146 1060 146 1067 147 1207
	87	16,126	1,43	9441	57600		
	93	15,003	1,53	8832	57600		
	98	14,363	1,53	8382	57100		
	106	13,200	1,67	7749	56900		
	114	12,280	1,77	7205	56400		
	124	11,285	1,93	6624	56300		
	135	10,344	1,97	6177	56300		
	148	9,435	2,20	5635	56300		
	155	9,023	2,30	5380	55150		
	162	8,636	2,40	5148	55150		
	177	7,928	2,60	4711	55000		
	183	7,639	2,30	4557	55000		
	192	7,297	2,80	4343	54400		
	201	6,967	2,50	4149	54100		
	210	6,663	2,50	3971	54000		
	220	6,377	2,60	3790	53800		
	239	5,854	2,70	3489	53800		
	257	5,454	2,50	3545	53500		
	268	5,220	2,60	3112	52900		
	292	4,792	2,70	2856	52900		
	372	3,759	3,10	2242	52900		
110 150	45	31,187	1,48	22310	66240	IRAM IRFM 181 / 315 S 4	148 1599 148 1624
	49	28,454	1,64	20488	65740		
	54	26,053	1,77	18591	65740		
	65	21,694	2,10	15445	65500		
	70	19,923	2,30	14342	65000		
	76	18,344	2,50	13210	64960		
	83	16,926	2,70	12096	64910		
	87	16,027	2,00	11715	64860		
	90	15,544	2,90	11155	64750		
	101	13,912	2,30	10091	64500		
	115	12,200	2,60	8863	64000		
	130	10,785	3,00	7840	64000		
	146	9,597	3,30	6981	63500		
	160	8,772	4,50	6370	63500		
	179	7,806	5,00	5694	63000		
	148	9,435	1,77	6887	55050	IRAM IRFM IRBM 151 / C280 M 4	146 1123 146 1130 147 1270
	155	9,023	1,85	6576	53900		
	162	8,636	1,94	6291	53900		
	177	7,928	2,10	5758	53750		
	183	7,639	1,91	5570	53750		
	192	7,297	2,30	5308	53150		
	201	6,967	2,00	5071	52750		
	210	6,663	2,10	4853	52650		
	220	6,377	2,10	4633	52450		
	239	5,854	2,30	4265	52450		
	257	5,454	2,10	3966	51950		
	268	5,220	2,10	3803	51350		
	292	4,792	2,30	3490	50900		
	372	3,759	2,60	2740	50000		



P ₁	n ₂	i	S _f	M ₂	F _{Q/2}			
Potencia	Velocidad	Reducción	Factor Servicio	Par de Salida	Carga Radial	Tipo		
Power	Output Speeds	Ratio	Service Factor	Output Torque	Over Loads	Type		
Leistung	Abtriebswelle Drehzahlen	Übersetzung	Betriebsfaktor	Abtriebswelle Drehmomente	Querkräfte	Typ		
[kW] Hp	[r.p.m]			[Nm]	[N]		kg	
132 180	65	21,694	1,77	18534	63340	IRAM IRFM	181 / 315 M 4a	148 1681 148 1706
	70	19,923	1,93	17210	62840			
	76	18,344	2,10	15852	62800			
	83	16,926	2,30	14515	62750			
	87	16,027	1,67	14058	62700			
	90	15,544	2,50	13386	62590			
	101	13,912	1,91	12110	62340			
	115	12,200	2,20	10635	61840			
	130	10,785	2,40	9408	61840			
	146	9,597	2,70	8377	61340			
	160	8,772	3,70	7644	61340			
	179	7,806	4,20	6833	60840			
160 220	130	10,785	2,00	11404	58000	IRAM IRFM	181 / 315 M 4b	148 1758 148 1783
	146	9,597	2,30	10154	58000			
	160	8,772	3,10	9266	55000			
	179	7,806	3,40	8282	53500			
185 250	130	10,785	1,75	13186	56000	IRAM IRFM	181 / 315 L 4a	148 1772 148 1797
	146	9,597	1,96	11741	55500			
	160	8,772	2,70	10713	53000			
	179	7,806	3,00	9576	51000			



Monobloc Helicoidal Motoreductores

Monoblock Helical Geared Motors

Monoblock Stirnradgetriebemotoren



IRAPM ...



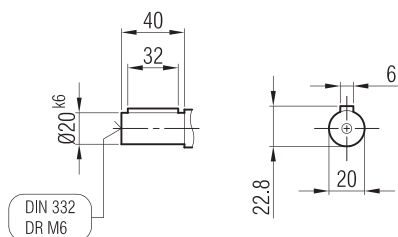
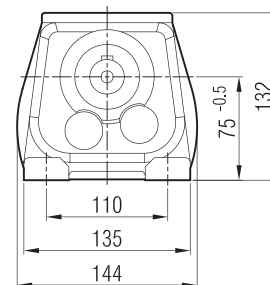
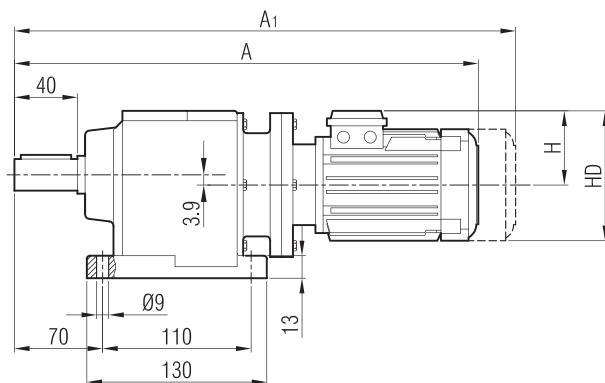
IRAFPM ...



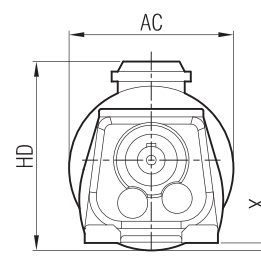
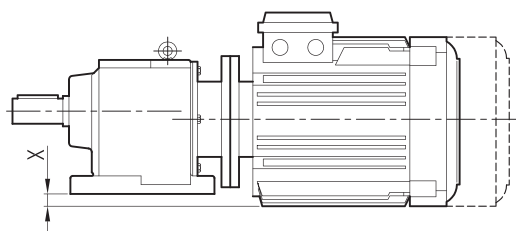
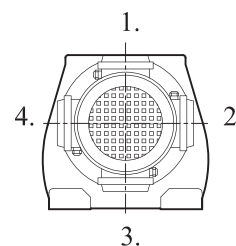
IRFPM ...



İRAPM 42
İRAPM 43



Posiciones Caja de Bornes
Terminal Box Positions
Klemmenkasten Positionen



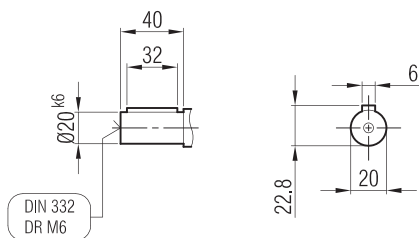
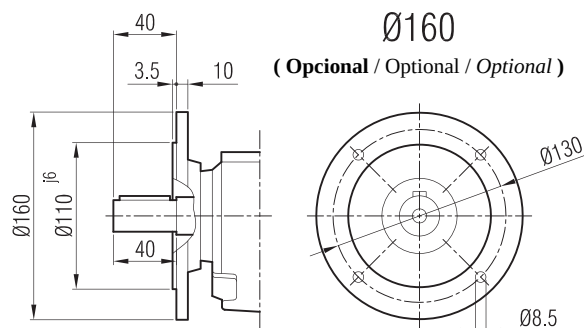
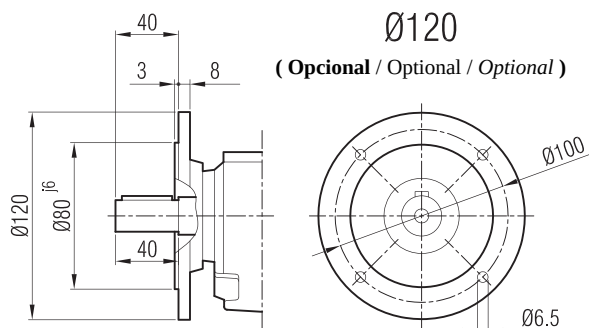
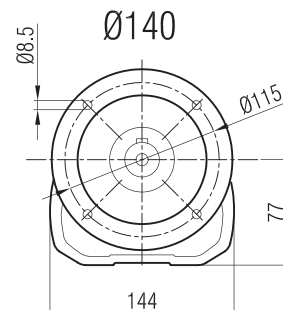
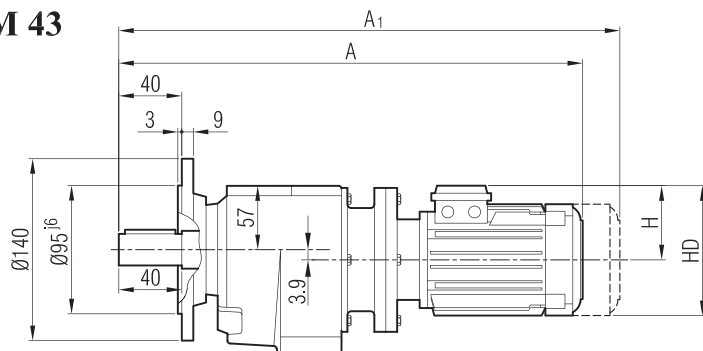
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5												
A		397	432	453	467	483												
A ₁		455	505	536	552	568												
H		99	111	118	132	132												
HD		162	182	198	222	222												
AC		123	132	158	193	193												
X		-	-	29	29	29												

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
Maß "A1" ist für Motoren mit Bremse

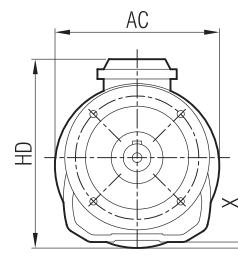
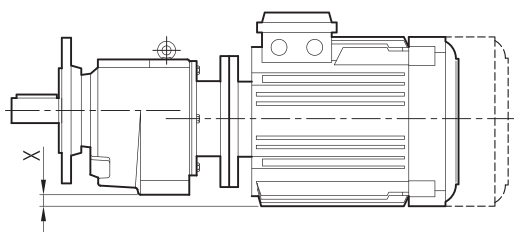
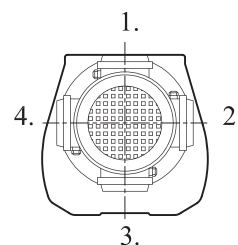


IRFPM 42

IRFPM 43



Posiciones Caja de Bornes
Terminal Box Positions
Klemmenkasten Positionen



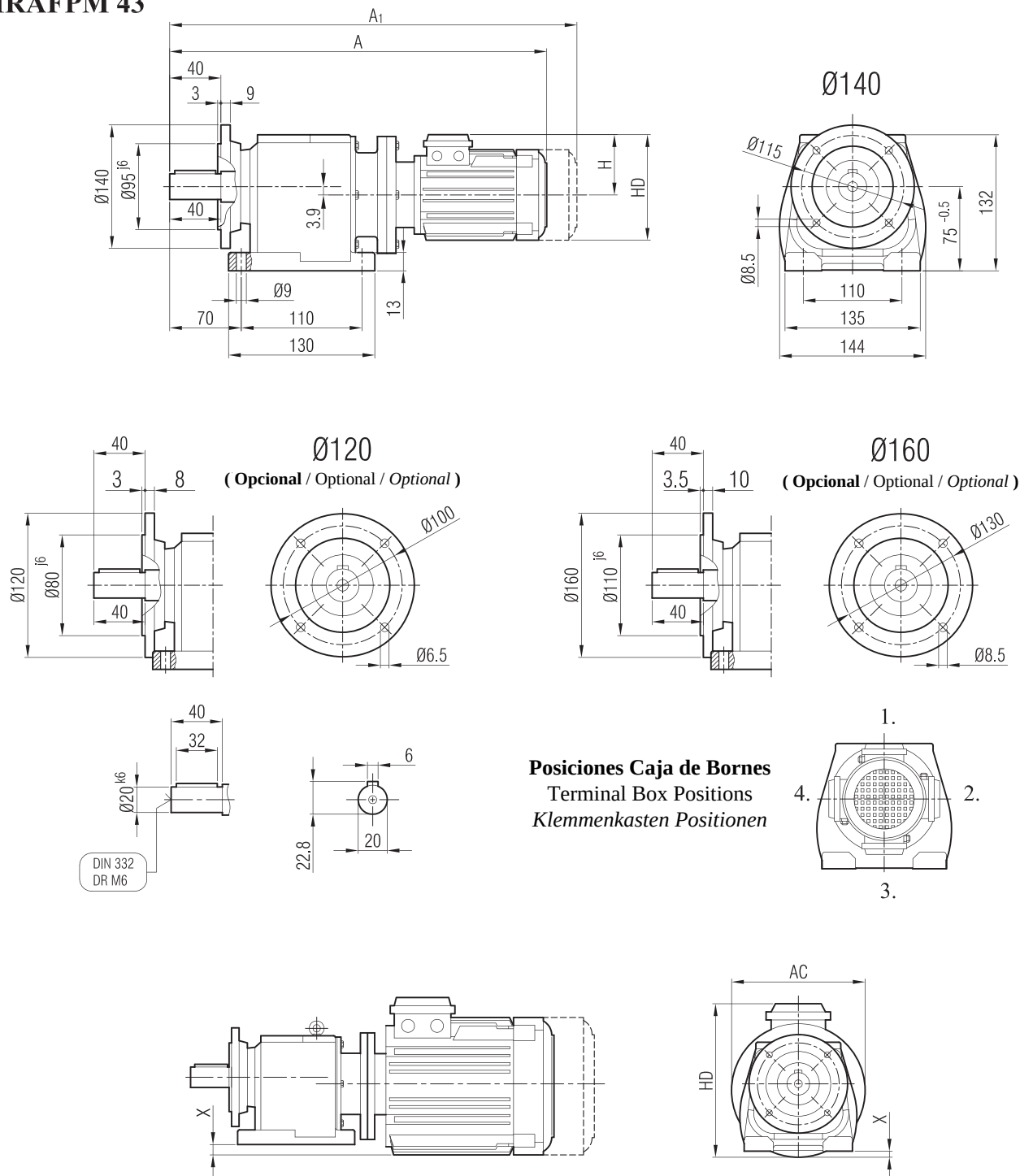
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5											
A		397	432	453	467	483											
A ₁		455	505	536	552	568											
H		99	111	118	132	132											
HD		162	182	198	222	222											
AC		123	132	158	193	193											
X		-	-	27	27	27											

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
Maß "A1" ist für Motoren mit Bremse



İRAFPM 42

İRAFPM 43



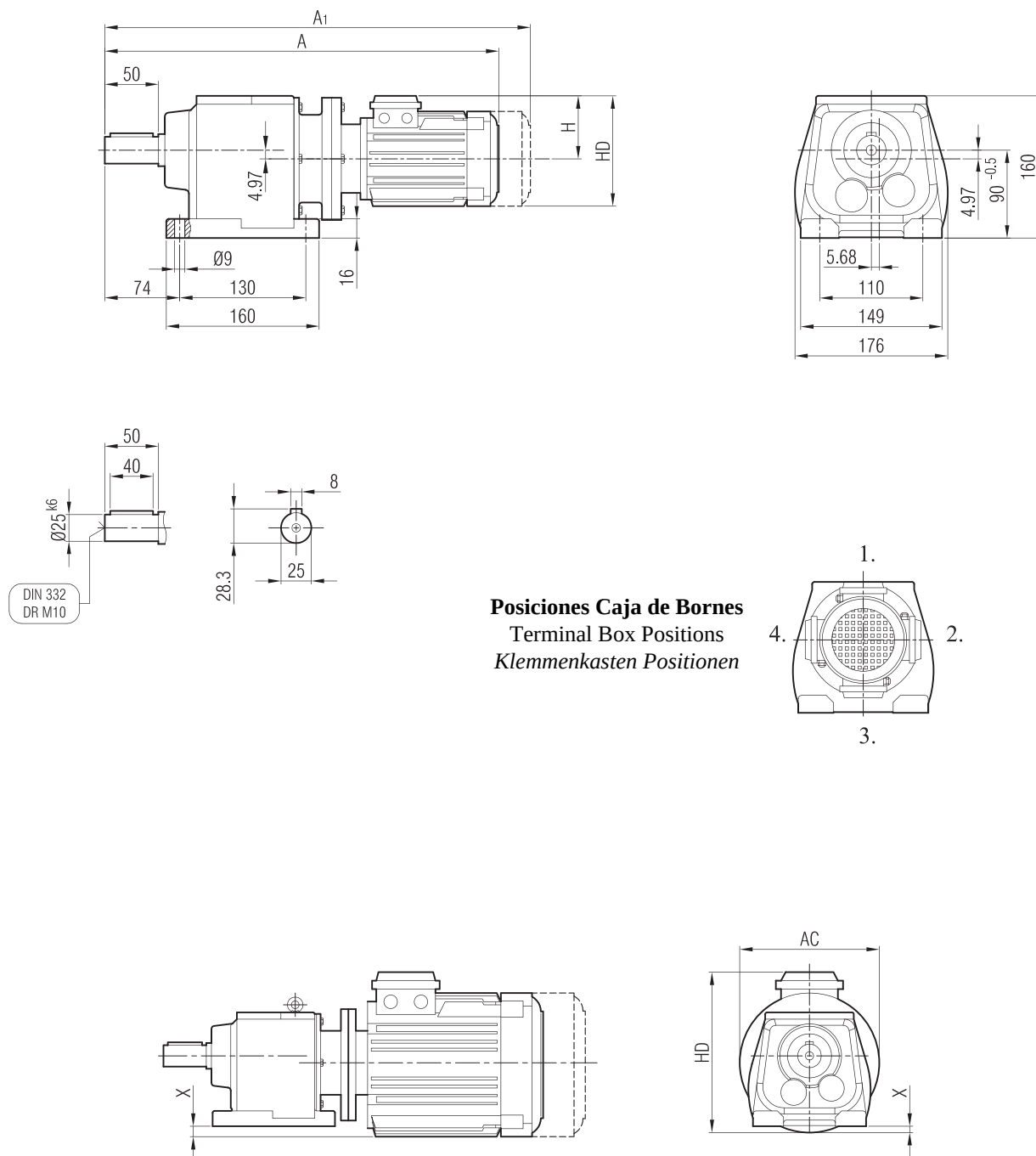
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5													
A		397	432	453	467	483													
A ₁		455	505	536	552	568													
H		99	111	118	132	132													
HD		162	182	198	222	222													
AC		123	132	158	193	193													
X		-	-	29	29	29													

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
Maß "A1" ist für Motoren mit Bremse



İRAPM 52

İRAPM 53



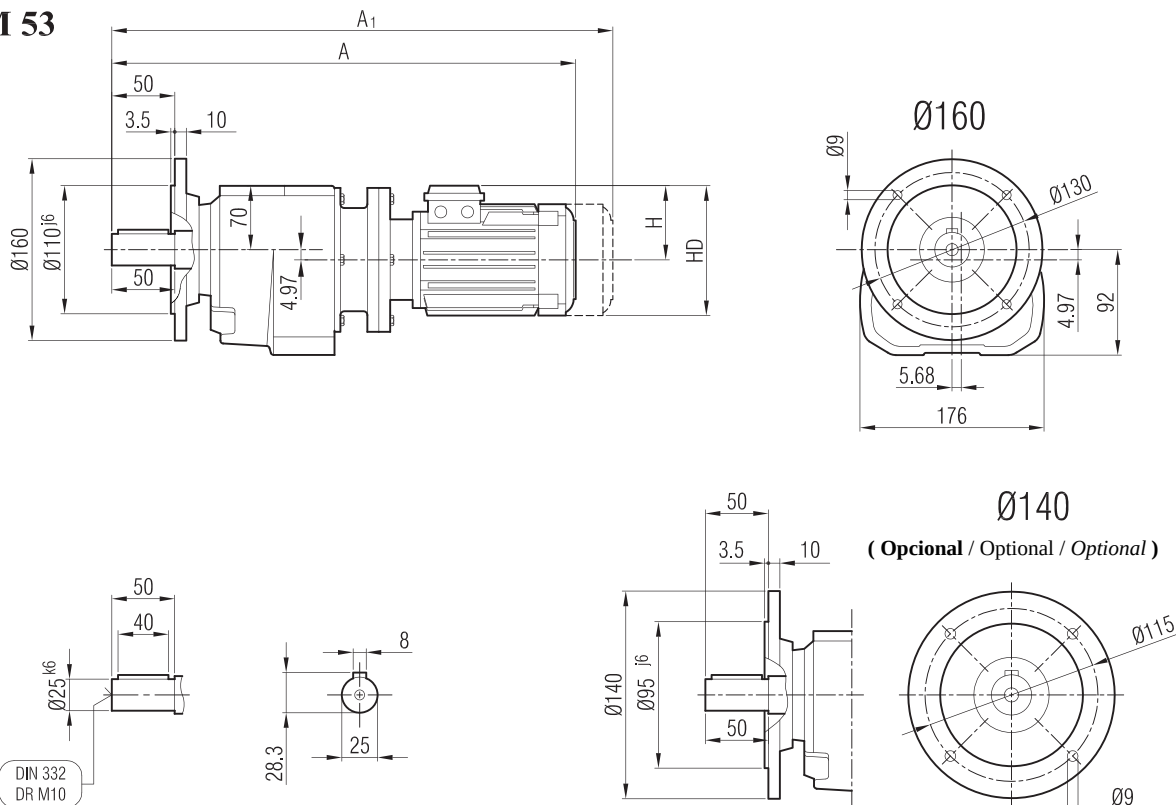
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5										
A		430	465	483	497	522	573										
A ₁		488	538	566	582	607	663										
H		99	111	118	132	132	141										
HD		162	182	198	222	222	241										
AC		123	132	158	193	193	217										
X		-	-	-	15	15	40										

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MaB "A1" ist für Motoren mit Bremse

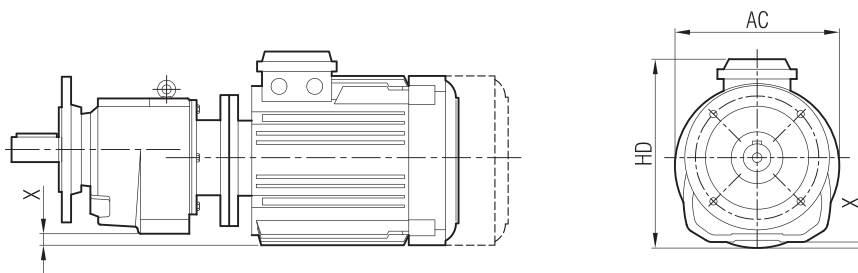
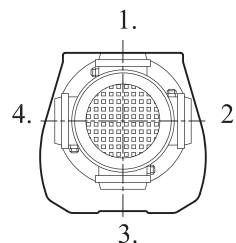


IRFPM 52

IRFPM 53



Posiciones Caja de Bornes
Terminal Box Positions
Klemmenkasten Positionen



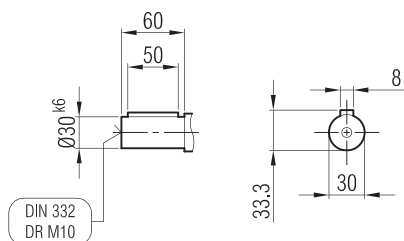
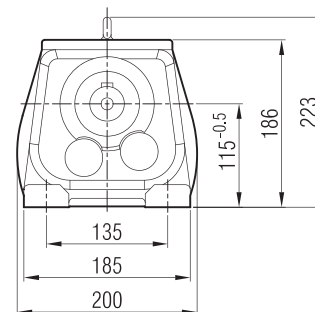
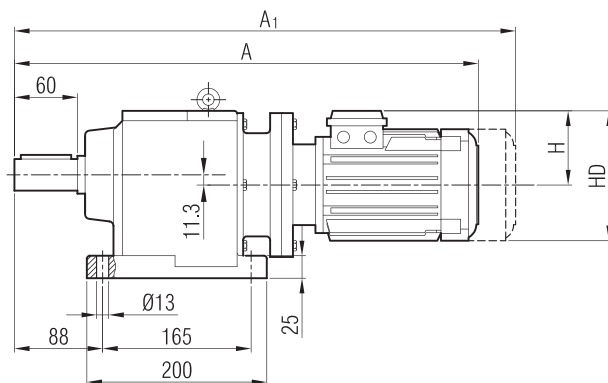
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5										
A		430	465	483	497	522	573										
A ₁		488	538	566	582	607	663										
H		99	111	118	132	132	141										
HD		162	182	198	222	222	241										
AC		123	132	158	193	193	217										
X		-	-	-	13	13	38										

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MaB "A1" ist für Motoren mit Bremse



İRAPM 621

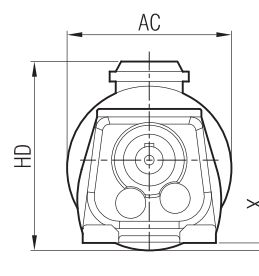
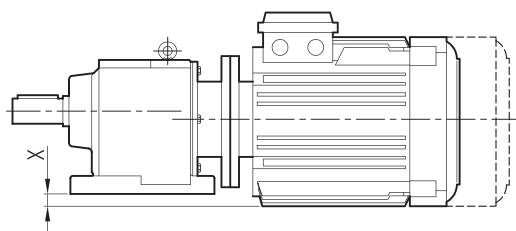
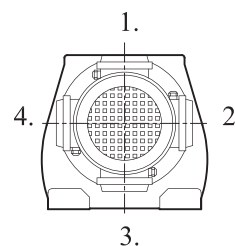
İRAPM 631



Posiciones Caja de Bornes

Terminal Box Positions

Klemmenkasten Positionen



	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/ B5							
A		473	509	535	549	574	619	640	681							
A ₁		531	582	618	634	659	709	765	823							
H		99	111	118	132	132	141	149	182							
HD		162	182	198	222	222	241	261	314							
AC		123	132	158	193	193	217	232	279							
X		-	-	-	-	-	22	22	47							

La cota "A1" se refiere a motores con freno

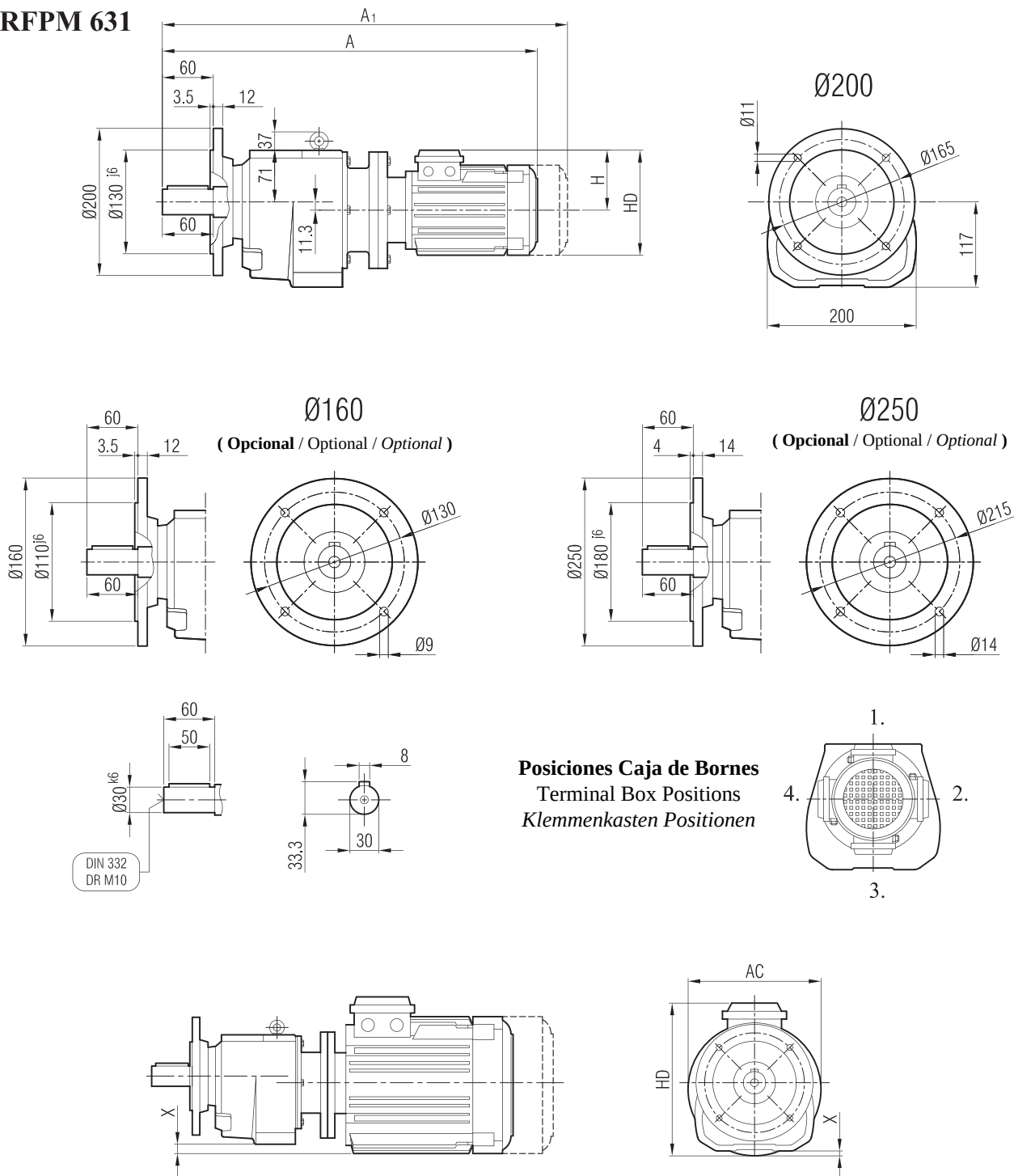
Dimension "A1" is for motors with brake

Maß "A1" ist für Motoren mit Bremse



IRFPM 621

IRFPM 631



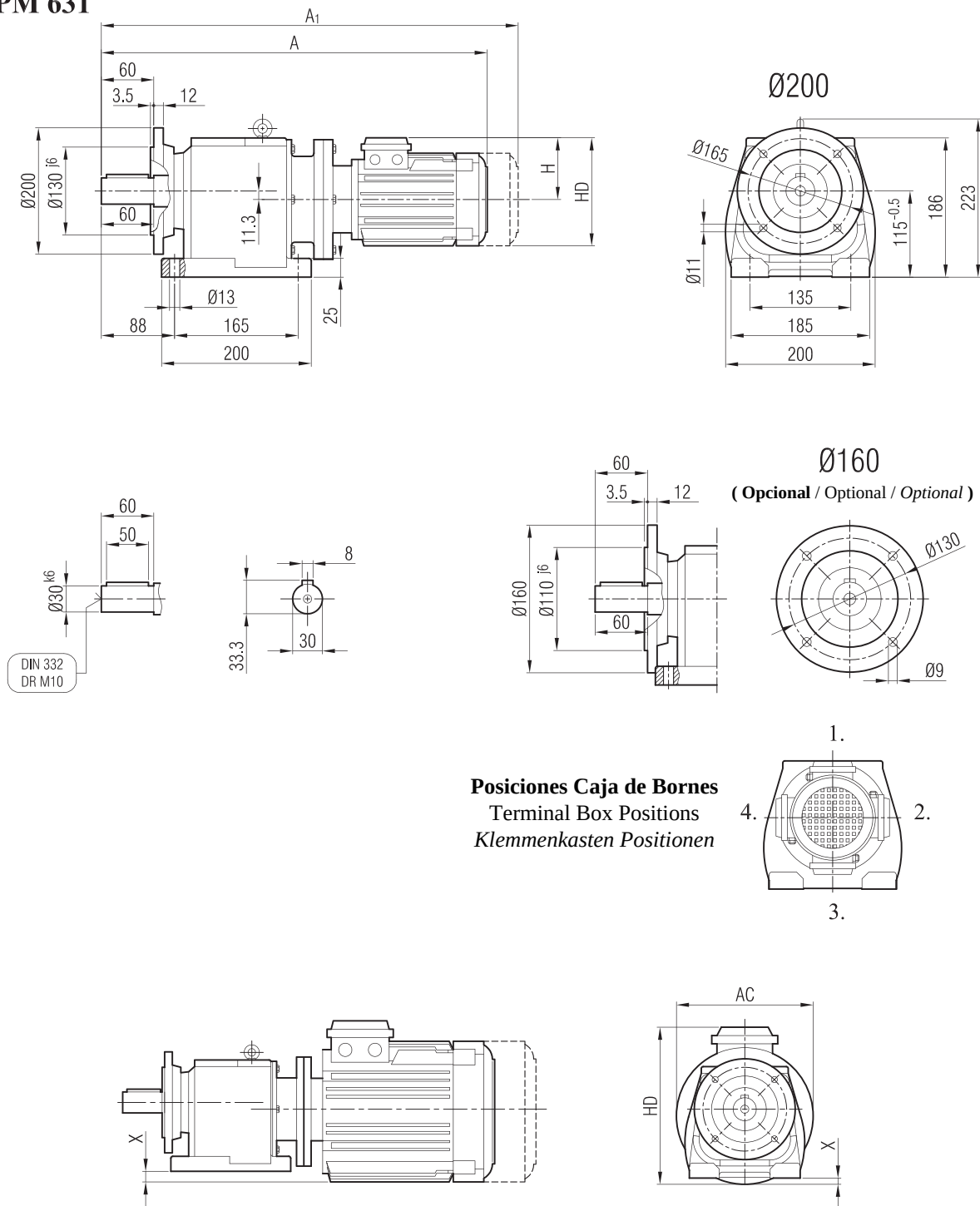
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/ B5							
A		473	509	535	549	574	619	640	681							
A ₁		531	582	618	634	659	709	765	823							
H		99	111	118	132	132	141	149	182							
HD		162	182	198	222	222	241	261	314							
AC		123	132	158	193	193	217	232	279							
X		-	-	-	-	20	20	45	45							

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
Maß "A1" ist für Motoren mit Bremse



İRAFPM 621

İRAFPM 631

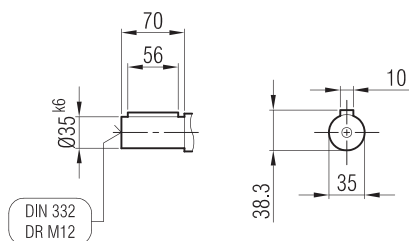
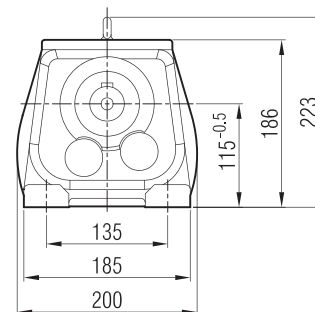
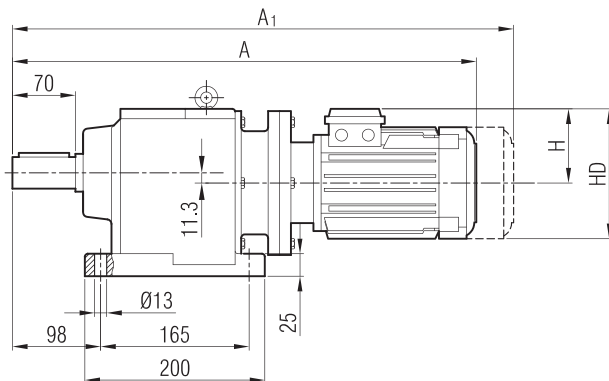


	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/ B5								
A		473	509	535	549	574	619	640	681								
A ₁		531	582	618	634	659	709	765	823								
H		99	111	118	132	132	141	149	182								
HD		162	182	198	222	222	241	261	314								
AC		123	132	158	193	193	217	232	279								
X		-	-	-	-	-	22	22	47								

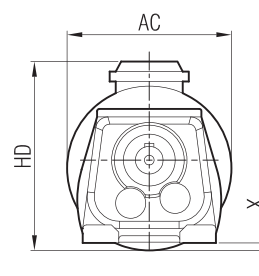
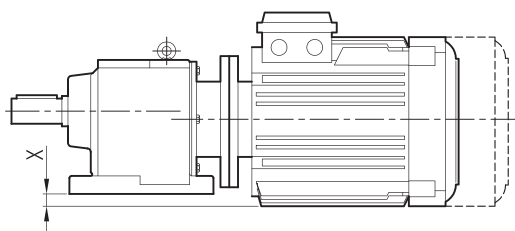
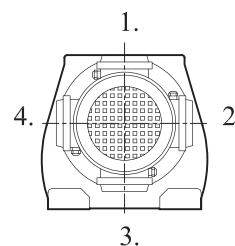
La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
Maß "A1" ist für Motoren mit Bremse



İRAPM 62
İRAPM 63



Posiciones Caja de Bornes
Terminal Box Positions
Klemmenkasten Positionen



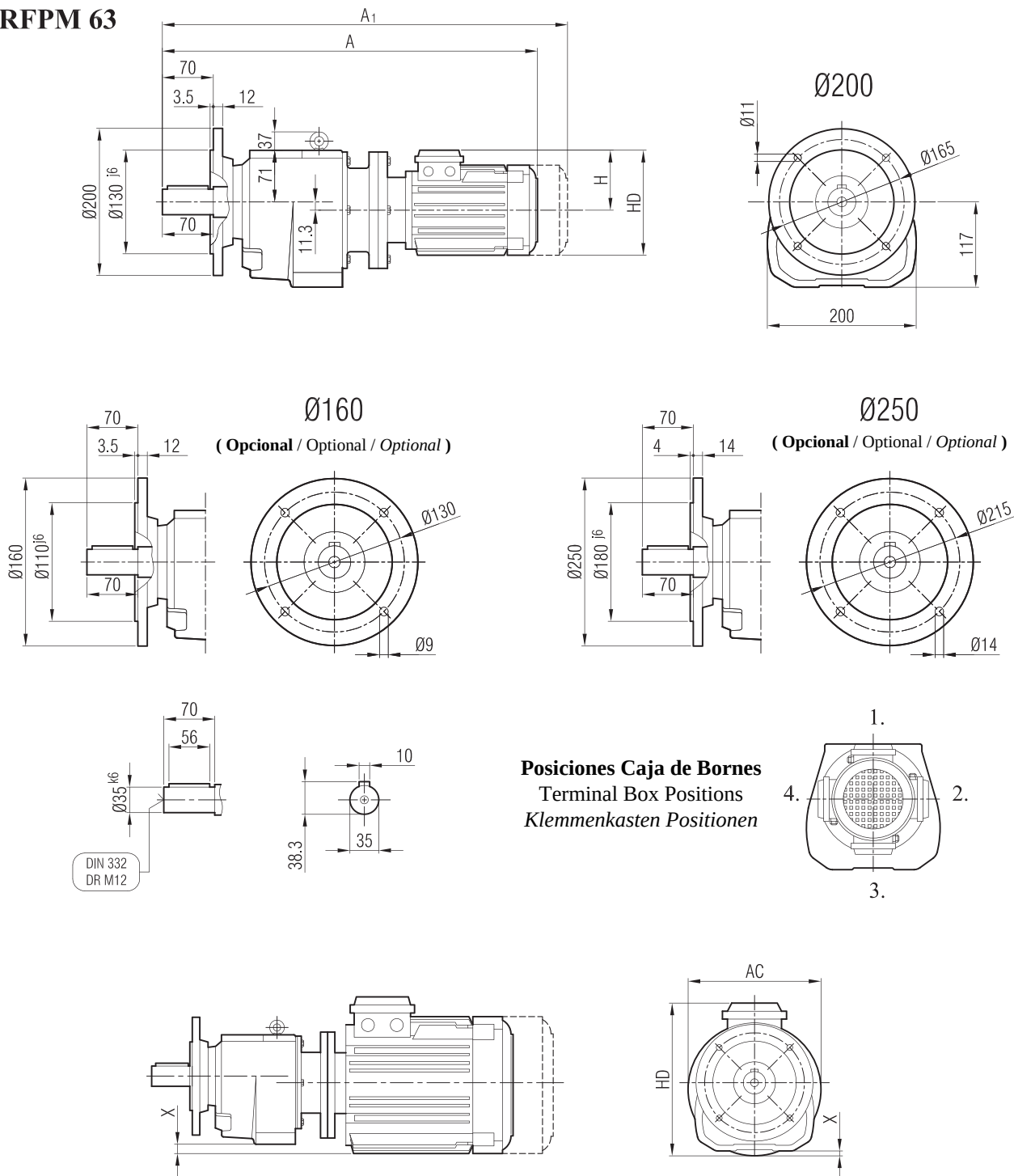
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/ B5							
A		483	519	545	559	584	629	650	691							
A ₁		541	592	628	644	669	719	775	833							
H		99	111	118	132	132	141	149	182							
HD		162	182	198	222	222	241	261	314							
AC		123	132	158	193	193	217	232	279							
X		-	-	-	-	22	22	47	47							

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
Maß "A1" ist für Motoren mit Bremse



IRFPM 62

IRFPM 63



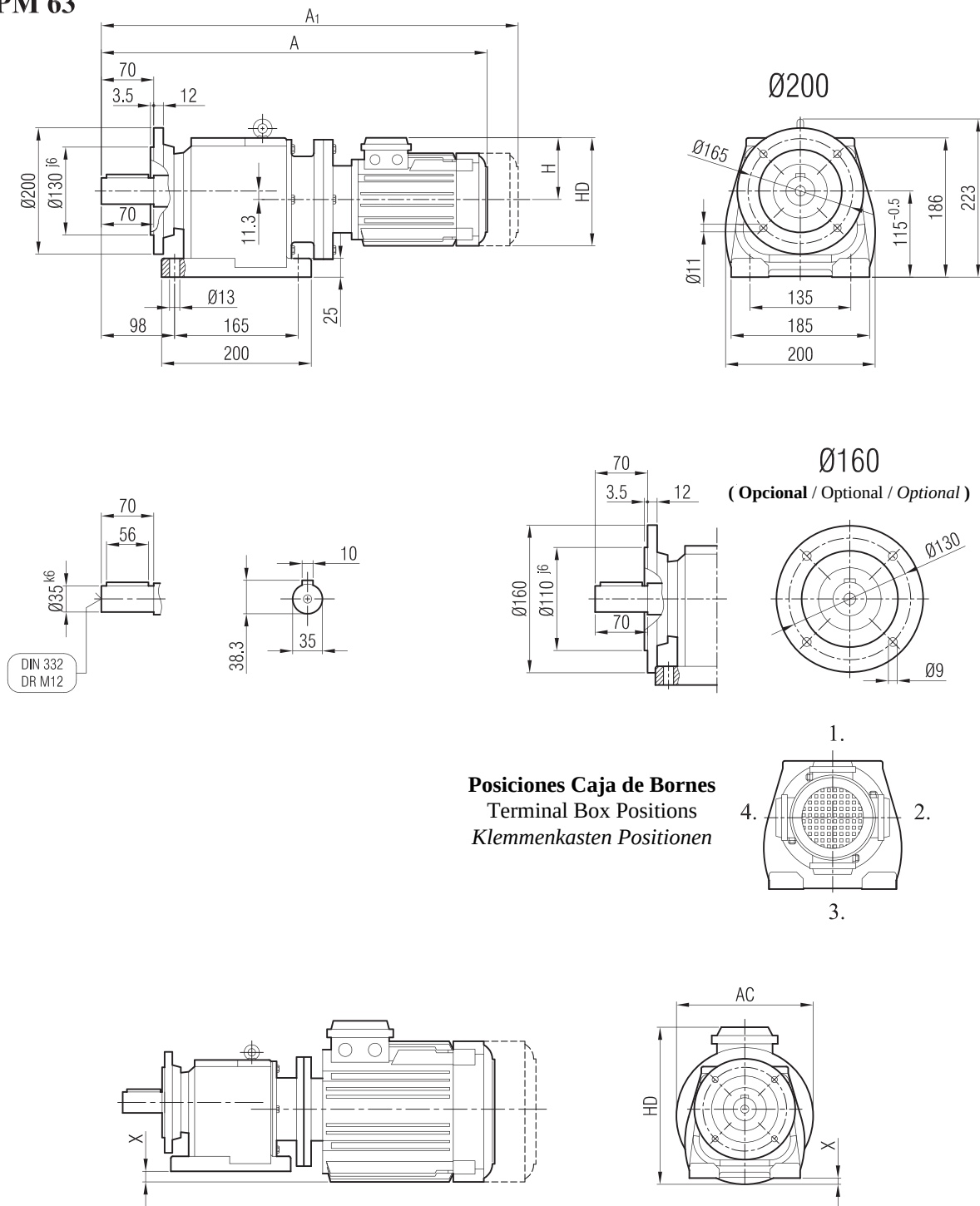
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/ B5								
A		483	519	545	559	584	629	650	691								
A ₁		541	592	628	644	669	719	775	833								
H		99	111	118	132	132	141	149	182								
HD		162	182	198	222	222	241	261	314								
AC		123	132	158	193	193	217	232	279								
X		-	-	-	-	20	20	45	45								

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
Maß "A1" ist für Motoren mit Bremse



İRAFPM 62

İRAFPM 63

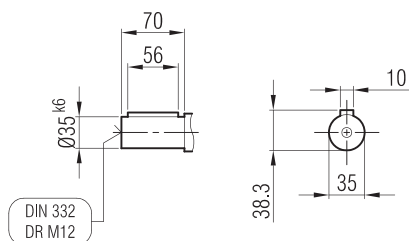
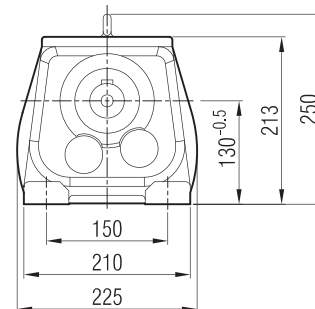
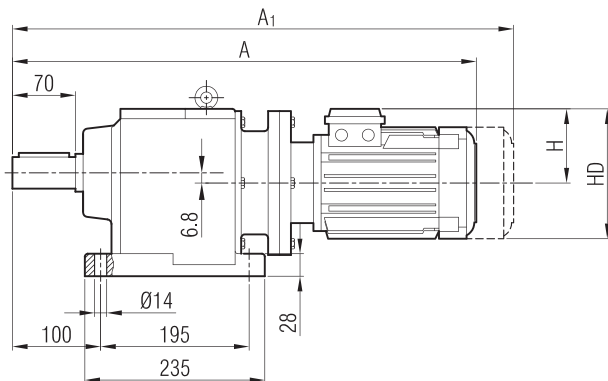


	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/ B5							
A		483	519	545	559	584	629	650	691							
A ₁		541	592	628	644	669	719	775	833							
H		99	111	118	132	132	141	149	182							
HD		162	182	198	222	222	241	261	314							
AC		123	132	158	193	193	217	232	279							
X		-	-	-	-	22	22	47	47							

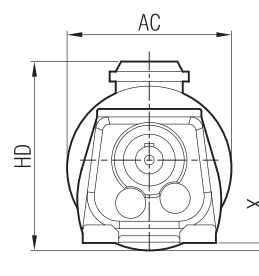
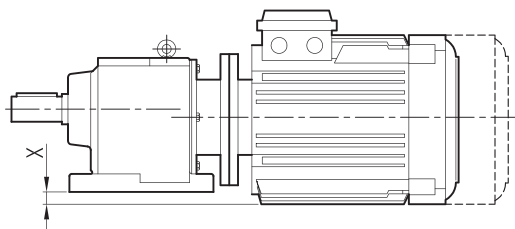
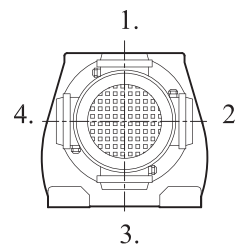
La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
Maß "A1" ist für Motoren mit Bremse



İRAPM 721
İRAPM 731



Posiciones Caja de Bornes
Terminal Box Positions
Klemmenkasten Positionen



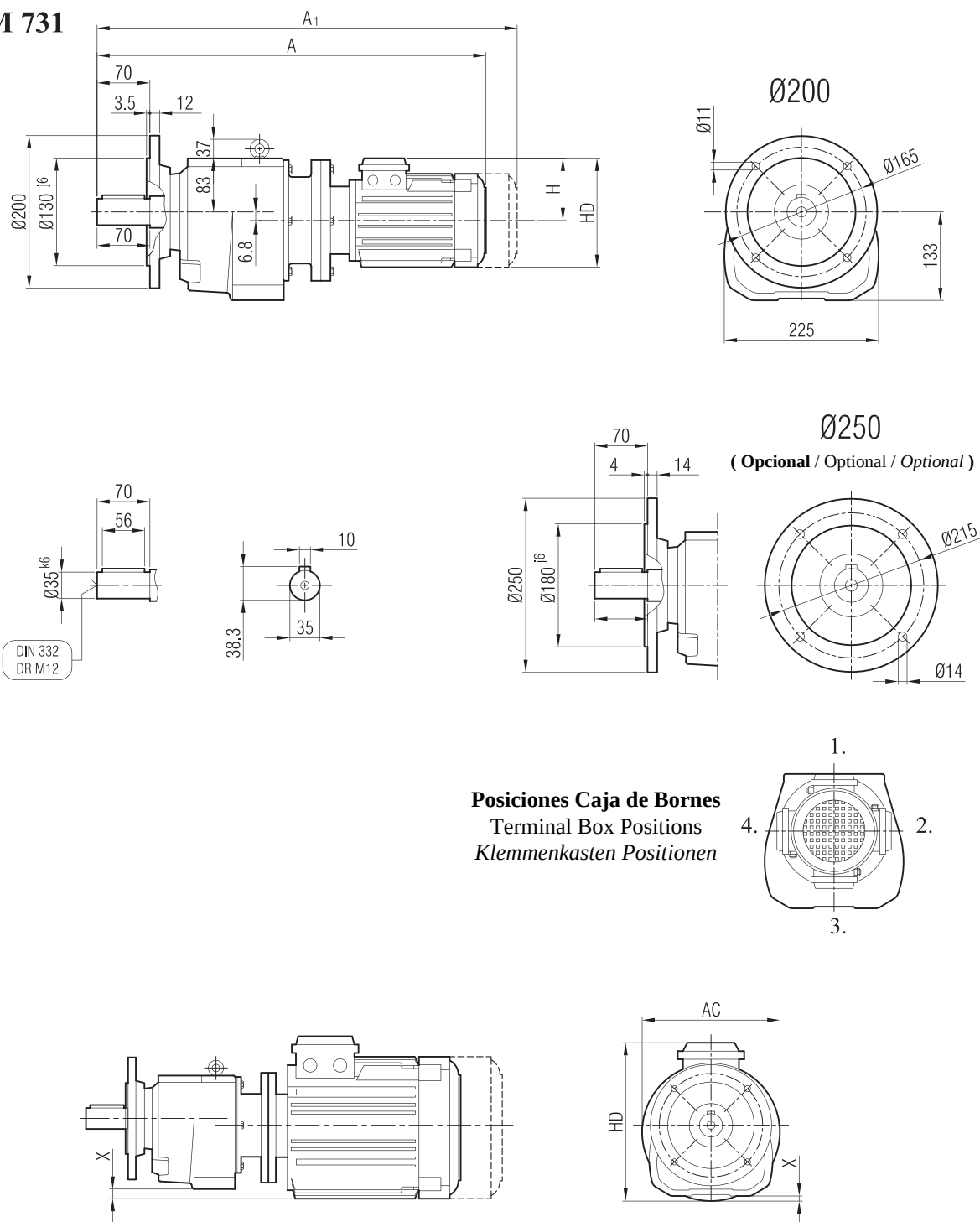
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5						
A			553	586	600	625	662	683	746	792						
A ₁			626	669	685	710	752	808	851	897						
H			111	118	132	132	141	149	182	182						
HD			182	198	222	222	241	261	314	314						
AC			132	158	193	193	217	232	279	279						
X			-	-	-	-	1.8	1.8	26.8	26.8						

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
Maß "A1" ist für Motoren mit Bremse



IRFPM 721

IRFPM 731

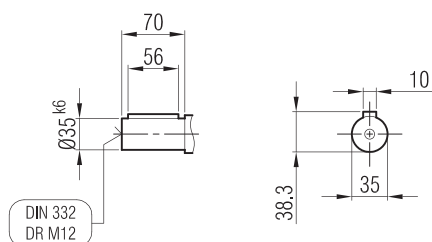
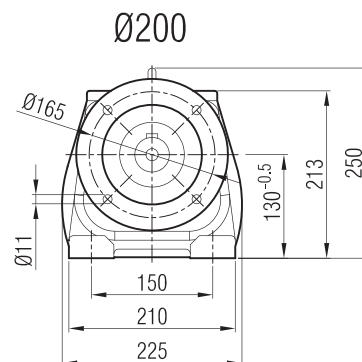
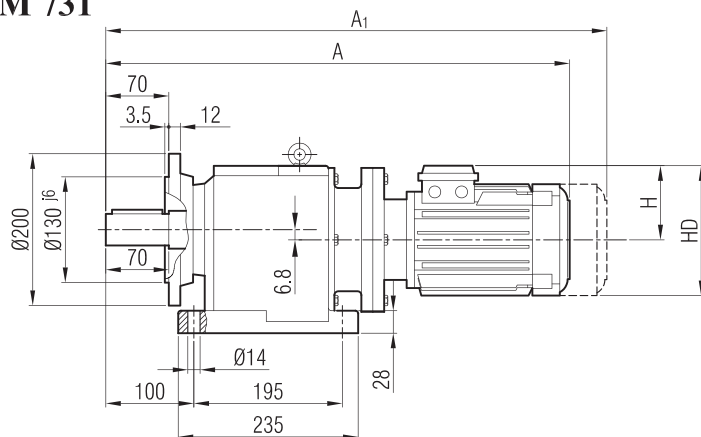


	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5						
A			553	586	600	625	662	683	746	792						
A ₁			626	669	685	710	752	808	851	897						
H			111	118	132	132	141	149	182	182						
HD			182	198	222	222	241	261	314	314						
AC			132	158	193	193	217	232	279	279						
X			-	-	-	-	1.8	1.8	26.8	26.8						

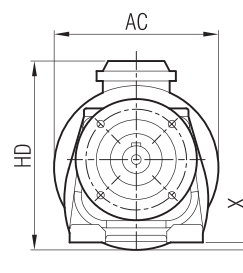
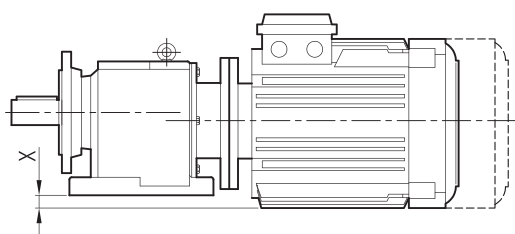
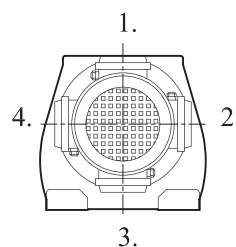
La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
Maß "A1" ist für Motoren mit Bremse



İRAFPM 721
İRAFPM 731



Posiciones Caja de Bornes
Terminal Box Positions
Klemmenkasten Positionen



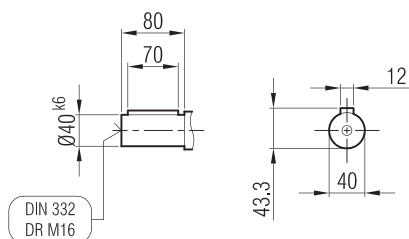
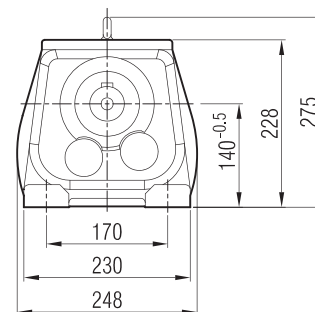
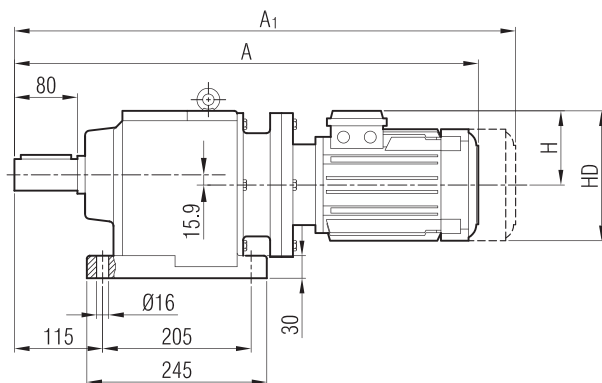
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5						
A			553	586	600	625	662	683	746	792						
A ₁			626	669	685	710	752	808	851	897						
H			111	118	132	132	141	149	182	182						
HD			182	198	222	222	241	261	314	314						
AC			132	158	193	193	217	232	279	279						
X			-	-	-	-	1.8	1.8	26.8	26.8						

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
Maß "A1" ist für Motoren mit Bremse



İRAPM 72

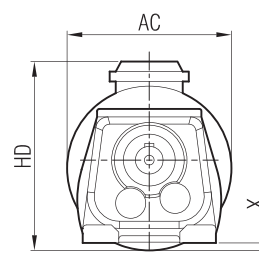
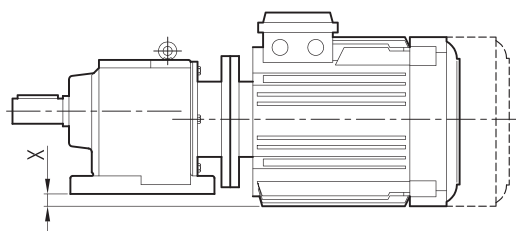
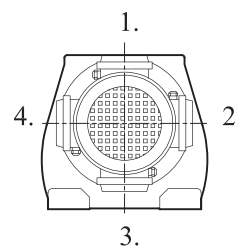
İRAPM 73



Posiciones Caja de Bornes

Terminal Box Positions

Klemmenkasten Positionen



	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5						
A			581	614	628	653	690	711	774	820						
A ₁			654	697	713	738	780	836	879	925						
H			111	118	132	132	141	149	182	182						
HD			182	198	222	222	241	261	314	314						
AC			132	158	193	193	217	232	279	279						
X			-	-	-	-	-	1	1	26						

La cota "A1" se refiere a motores con freno

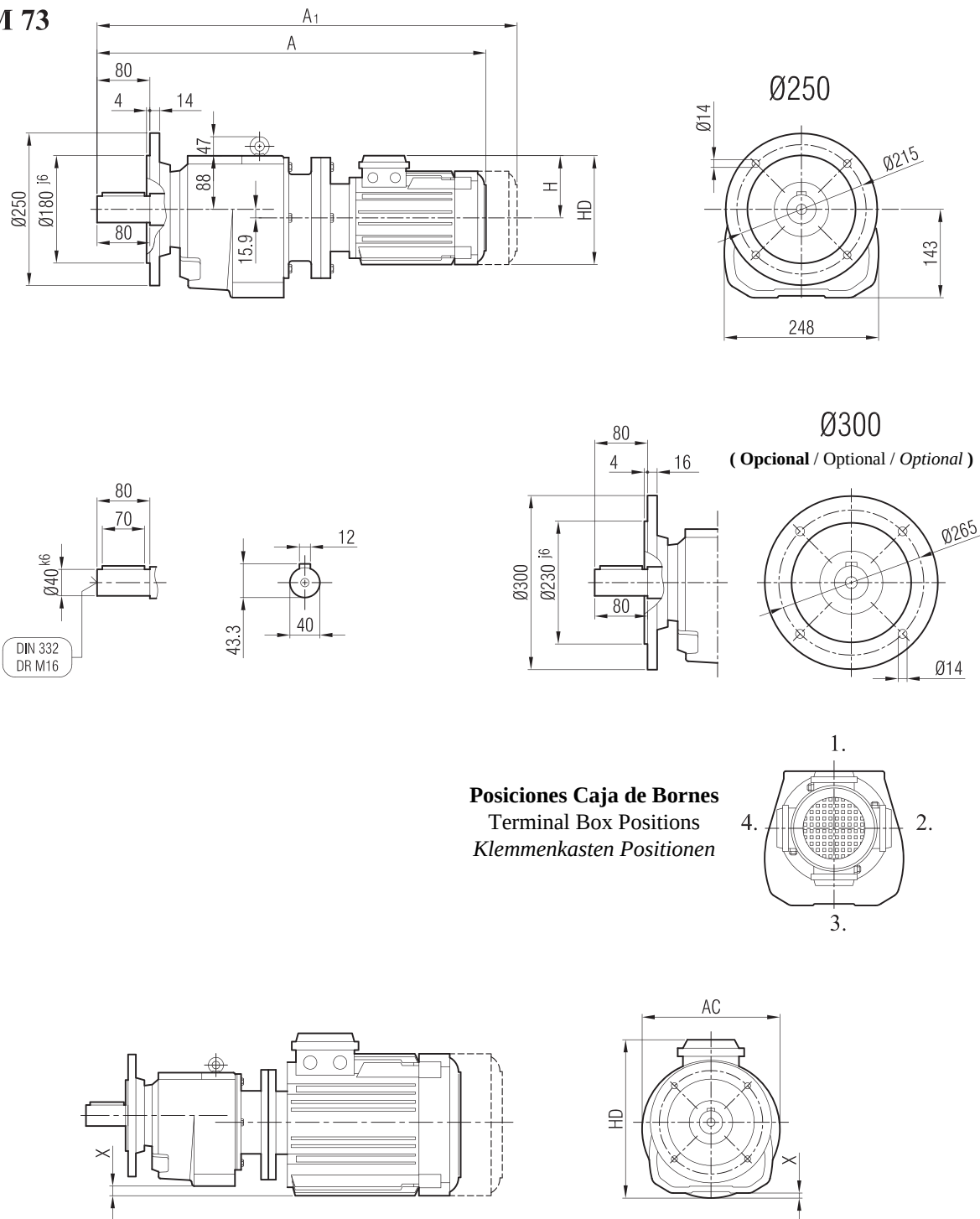
Dimension "A1" is for motors with brake

MaB "A1" ist für Motoren mit Bremse



IRFPM 72

IRFPM 73



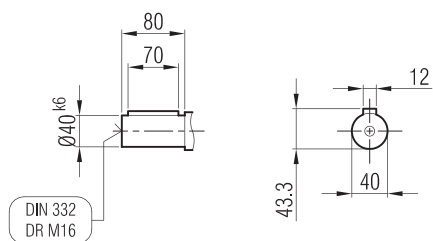
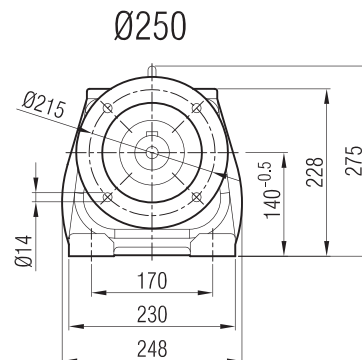
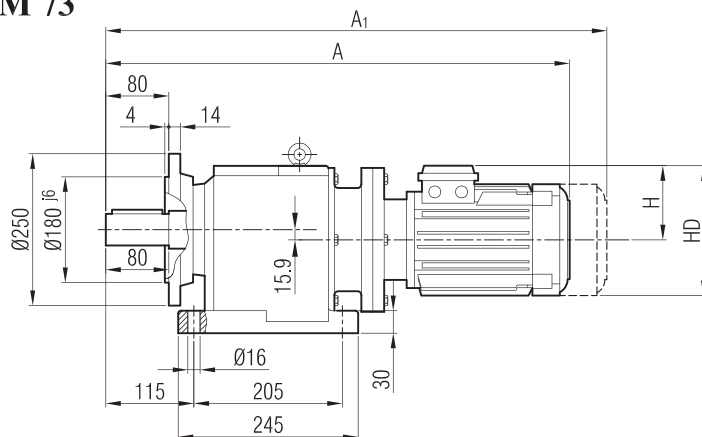
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5						
A			581	614	628	653	690	711	774	820						
A ₁			654	697	713	738	780	836	879	925						
H			111	118	132	132	141	149	182	182						
HD			182	198	222	222	241	261	314	314						
AC			132	158	193	193	217	232	279	279						
X			-	-	-	-	-	-	-	23						

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MaB "A1" ist für Motoren mit Bremse



İRAFPM 72

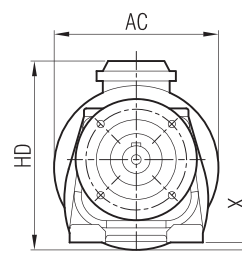
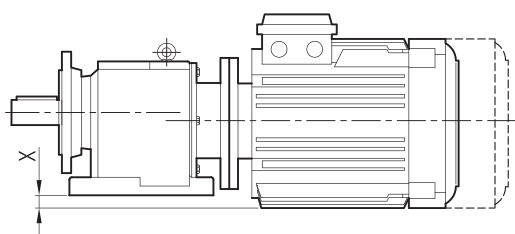
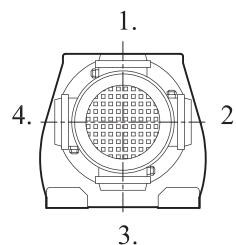
İRAFPM 73



Posiciones Caja de Bornes

Terminal Box Positions

Klemmenkasten Positionen



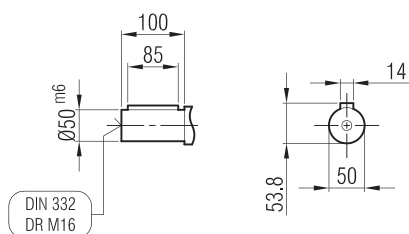
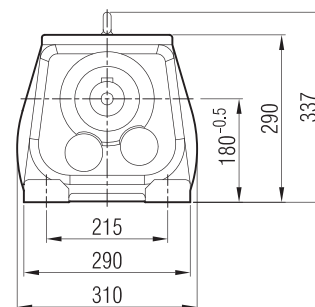
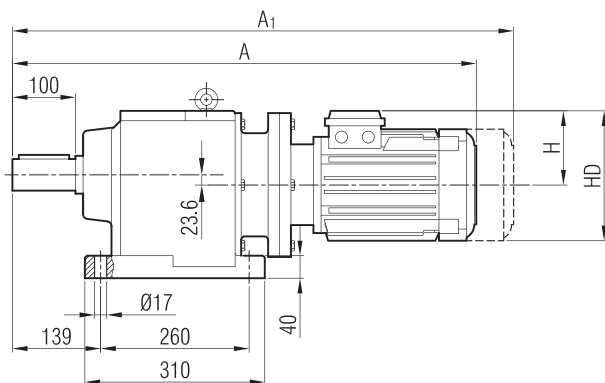
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5						
A			581	614	628	653	690	711	774	820						
A ₁			654	697	713	738	780	836	879	925						
H			111	118	132	132	141	149	182	182						
HD			182	198	222	222	241	261	314	314						
AC			132	158	193	193	217	232	279	279						
X			-	-	-	-	-	1	1	26						

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MaB "A1" ist für Motoren mit Bremse



İRAPM 82

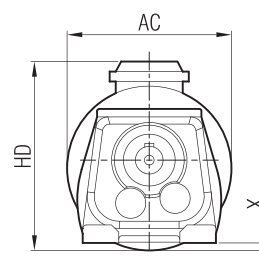
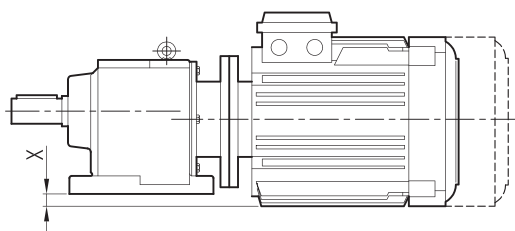
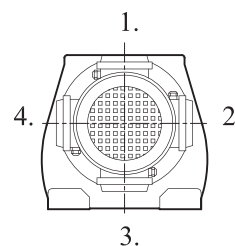
İRAPM 83



Posiciones Caja de Bornes

Terminal Box Positions

Klemmenkasten Positionen



	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5	160 M/B5	160 L/B5	180 M/B5	180 L/B5			
A				693	707	732	771	792	852	898	984	1028	1042	1080			
A ₁				776	792	817	861	917	957	1003	1104	1148	1162	1200			
H				118	132	132	141	149	182	182	225	225	248	248			
HD				198	222	222	241	261	314	314	385	385	428	428			
AC				158	193	193	217	232	279	279	325	325	370	370			
X				-	-	-	-	-	-	-	16	16	16	16			

La cota "A1" se refiere a motores con freno

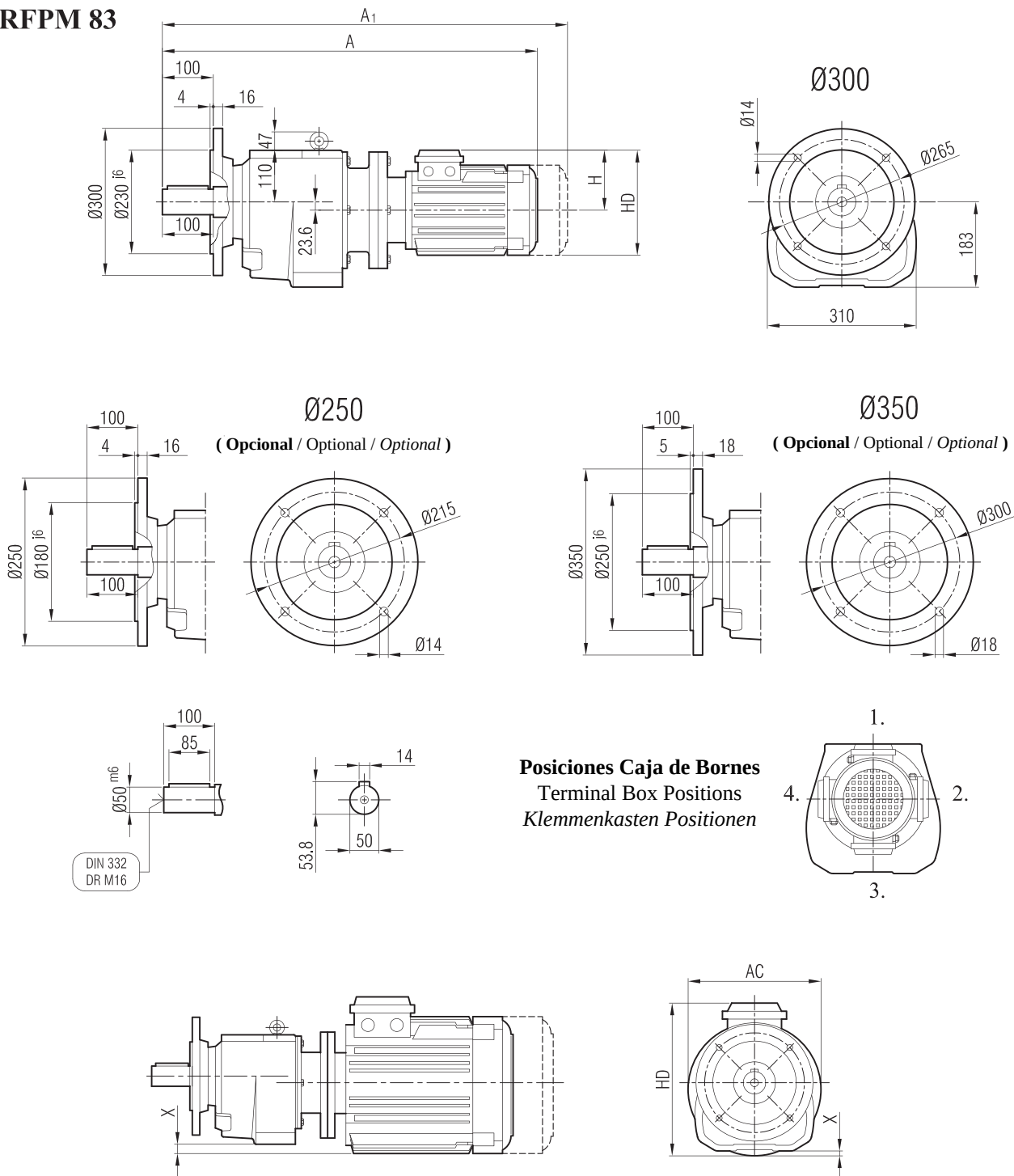
Dimension "A1" is for motors with brake

MaB "A1" ist für Motoren mit Bremse



IRFPM 82

IRFPM 83

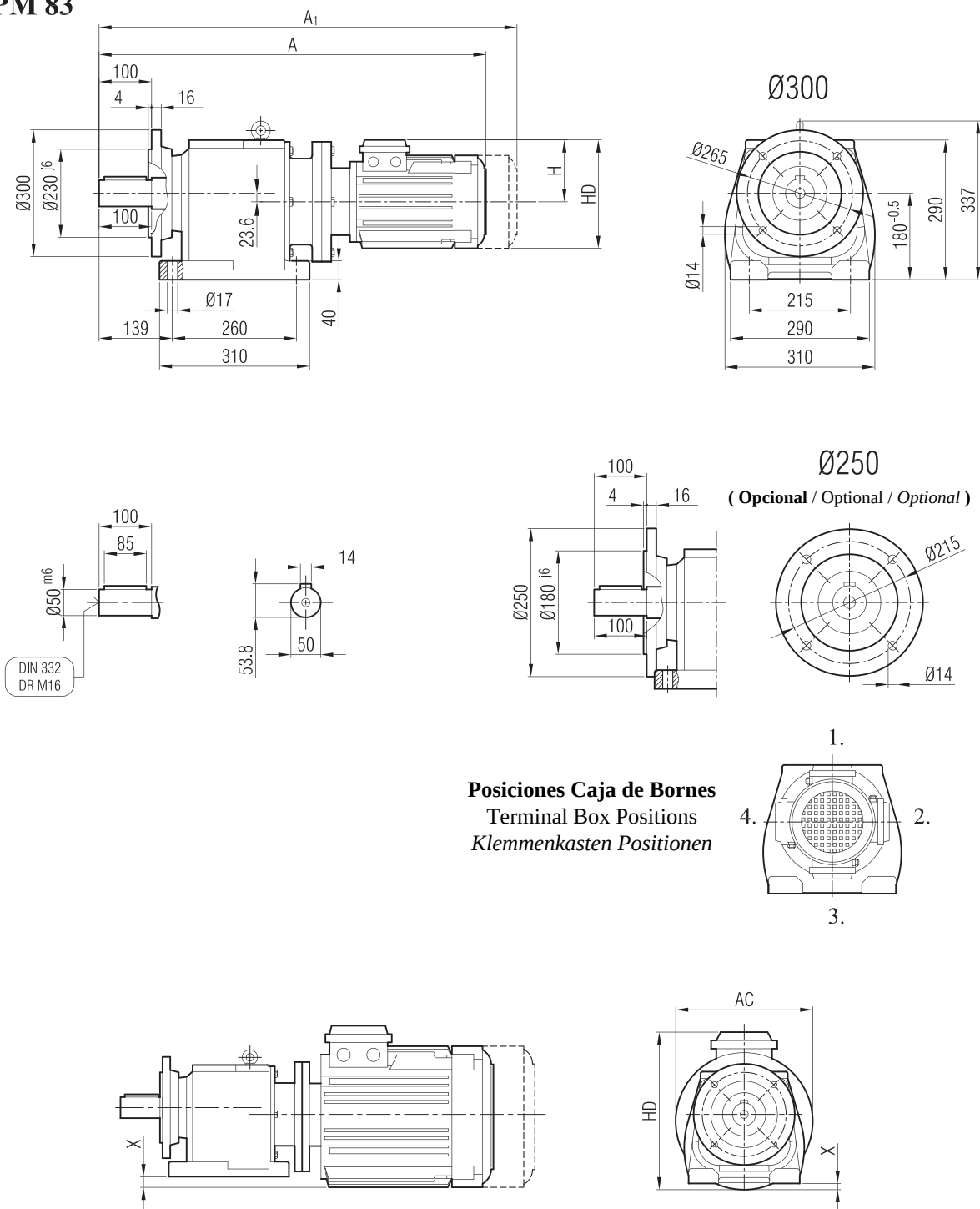


	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5	160 M/B5	160 L/B5	180 M/B5	180 L/B5			
A				693	707	732	771	792	852	898	984	1028	1042	1080			
A ₁				776	792	817	861	917	957	1003	1104	1148	1162	1200			
H				118	132	132	141	149	182	182	225	225	248	248			
HD				198	222	222	241	261	314	314	385	385	428	428			
AC				158	193	193	217	232	279	279	325	325	370	370			
X				-	-	-	-	-	-	-	4	4	24	24			

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
Maß "A1" ist für Motoren mit Bremse



İRAFPM 82
İRAFPM 83

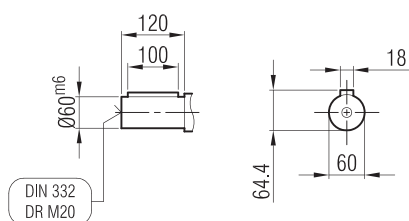
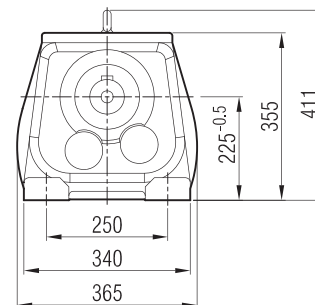
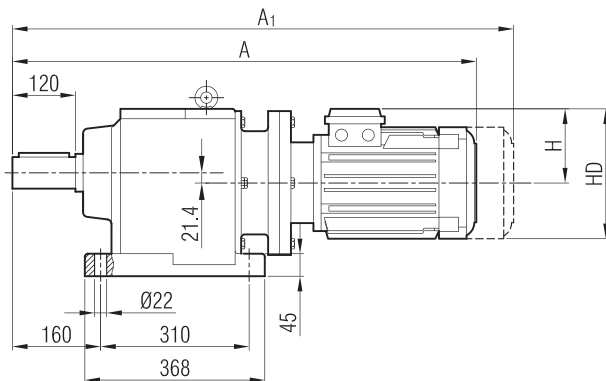


	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5	160 M/B5	160 L/B5	180 M/B5	180 L/B5			
A				693	707	732	771	792	852	898	984	1028	1042	1080			
A ₁				776	792	817	861	917	957	1003	1104	1148	1162	1200			
H				118	132	132	141	149	182	182	225	225	248	248			
HD				198	222	222	241	261	314	314	385	385	428	428			
AC				158	193	193	217	232	279	279	325	325	370	370			
X				-	-	-	-	-	-	-	4	4	24	24			

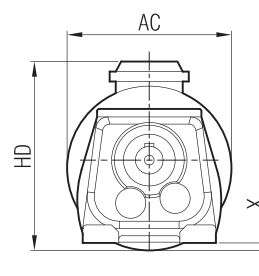
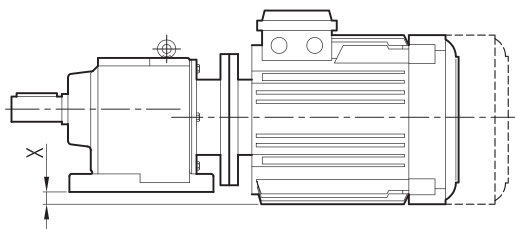
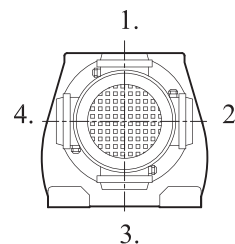
La cota "A1" se refiere a motores con freno
 Dimension "A1" is for motors with brake
Maß "A1" ist für Motoren mit Bremse



İRAPM 92
İRAPM 93



Posiciones Caja de Bornes
Terminal Box Positions
Klemmenkasten Positionen



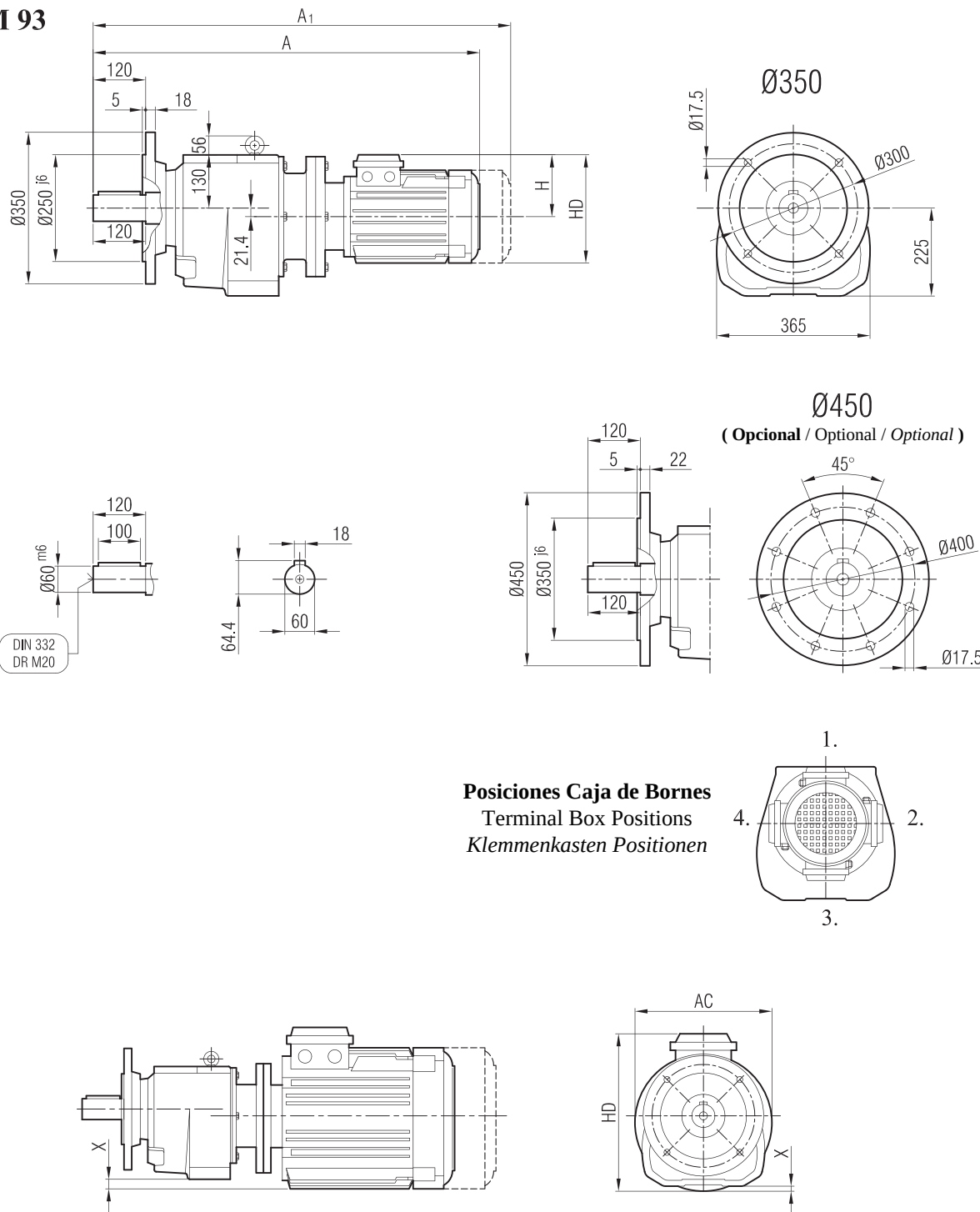
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5	160 M/B5	160 L/B5	180 M/B5	180 L/B5	200/B5		
A				745	759	784	825	846	922	968	1054	1098	1112	1150	1248		
A ₁				828	844	869	915	971	1027	1073	1174	1218	1232	1270	-		
H				118	132	132	141	149	182	182	225	225	248	248	275		
HD				198	222	222	241	261	314	314	385	385	428	428	425		
AC				158	193	193	217	232	279	279	325	325	370	370	415		
X				-	-	-	-	-	-	-	-	-	-	-	-		

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
Maß "A1" ist für Motoren mit Bremse



IRFPM 92

IRFPM 93



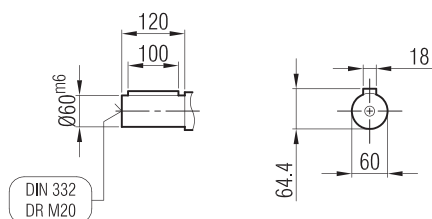
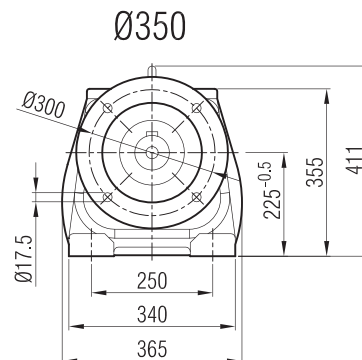
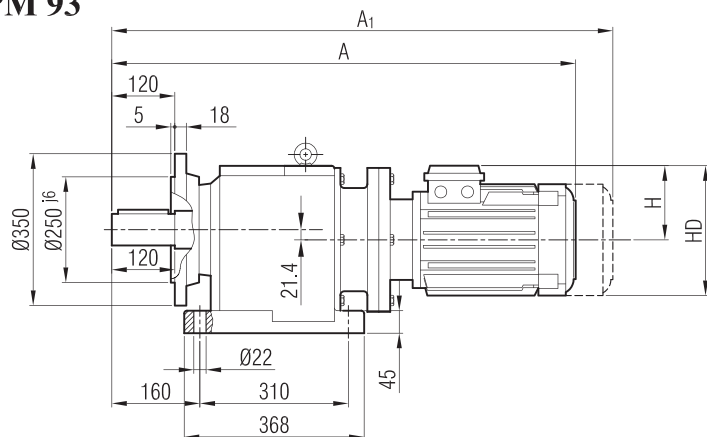
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5	160 M/B5	160 L/B5	180 M/B5	180 L/B5	200/B5		
A				745	759	784	825	846	922	968	1054	1098	1112	1150	1248		
A ₁				828	844	869	915	971	1027	1073	1174	1218	1232	1270	-		
H				118	132	132	141	149	182	182	225	225	248	248	275		
HD				198	222	222	241	261	314	314	385	385	428	428	425		
AC				158	193	193	217	232	279	279	325	325	370	370	415		
X				-	-	-	-	-	-	-	-	-	-	-	-		

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MaB "A1" ist für Motoren mit Bremse



İRAFPM 92

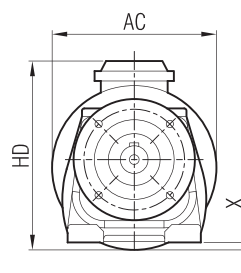
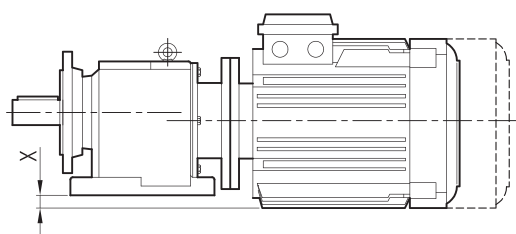
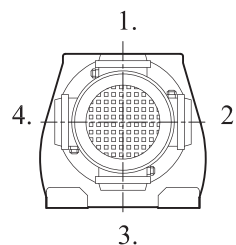
İRAFPM 93



Posiciones Caja de Bornes

Terminal Box Positions

Klemmenkasten Positionen



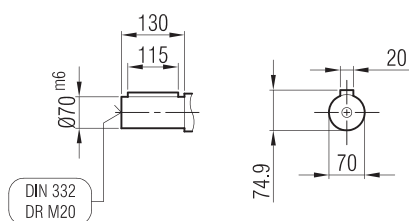
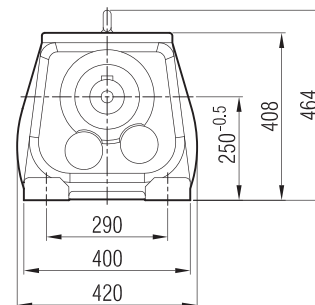
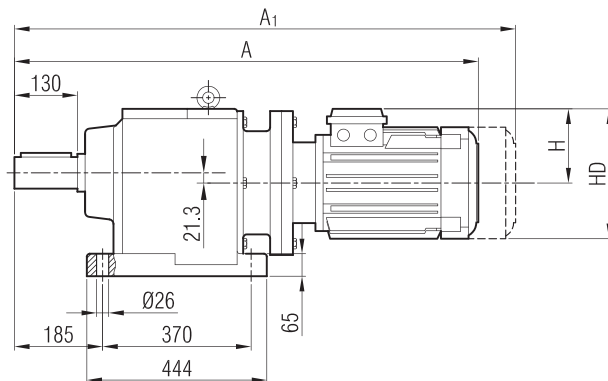
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5	160 M/B5	160 L/B5	180 M/B5	180 L/B5	200/B5		
A				745	759	784	825	846	922	968	1054	1098	1112	1150	1248		
A ₁				828	844	869	915	971	1027	1073	1174	1218	1232	1270	-		
H				118	132	132	141	149	182	182	225	225	248	248	275		
HD				198	222	222	241	261	314	314	385	385	428	428	425		
AC				158	193	193	217	232	279	279	325	325	370	370	415		
X				-	-	-	-	-	-	-	-	-	-	-	-		

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MaB "A1" ist für Motoren mit Bremse



İRAPM 102

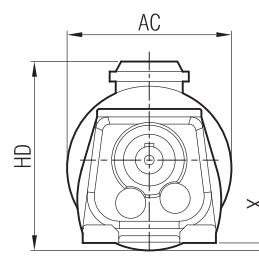
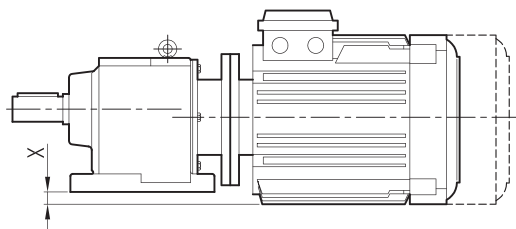
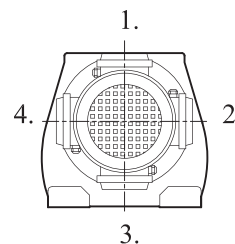
İRAPM 103



Posiciones Caja de Bornes

Terminal Box Positions

Klemmenkasten Positionen



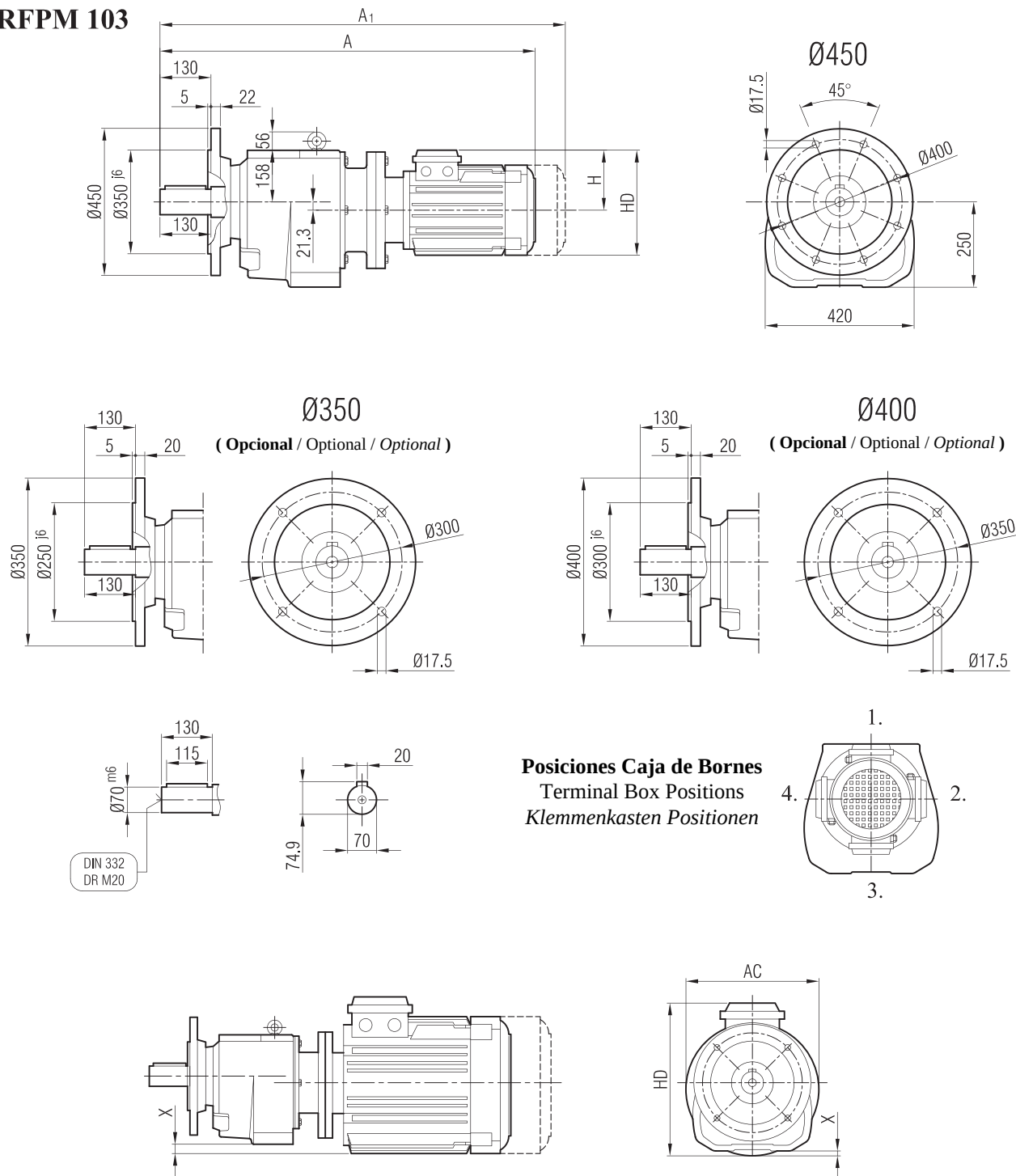
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5	160 M/B5	160 L/B5	180 M/B5	180 L/B5	200/B5	225 S/B5	225 M/B5
A							902	923	989	1035	1112	1156	1170	1208	1326	1351	1376
A ₁							992	1048	1094	1140	1232	1276	1290	1328	-	-	-
H							141	149	182	182	225	225	248	248	275	285	285
HD							241	261	314	314	385	385	428	428	425	510	510
AC							217	232	279	279	325	325	370	370	415	456	456
X							-	-	-	-	-	-	-	-	-	-	-

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MaB "A1" ist für Motoren mit Bremse



IRFPM 102

IRFPM 103



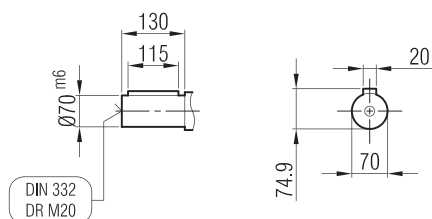
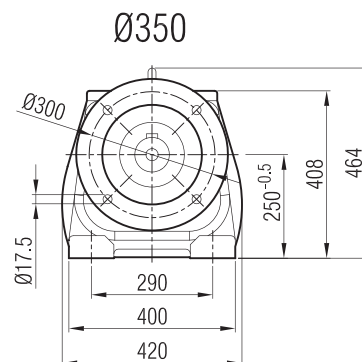
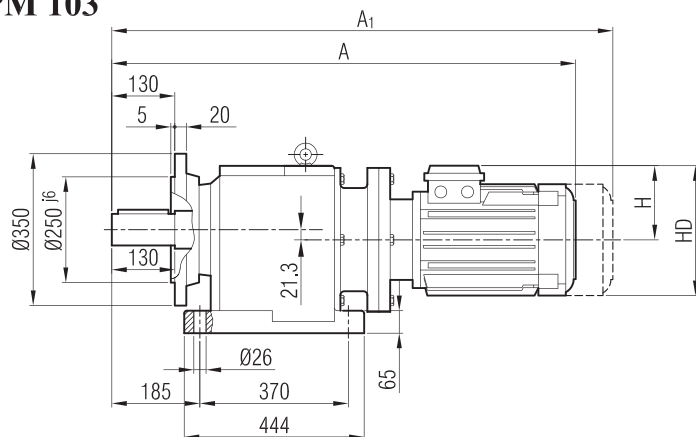
	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5	160 M/B5	160 L/B5	180 M/B5	180 L/B5	200/B5	225 S/B5	225 M/B5
A							902	923	989	1035	1112	1156	1170	1208	1326	1351	1376
A ₁							992	1048	1094	1140	1232	1276	1290	1328	-	-	-
H							141	149	182	182	225	225	248	248	275	285	285
HD							241	261	314	314	385	385	428	428	425	510	510
AC							217	232	279	279	325	325	370	370	415	456	456
X							-	-	-	-	-	-	-	-	-	-	-

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MaB "A1" ist für Motoren mit Bremse

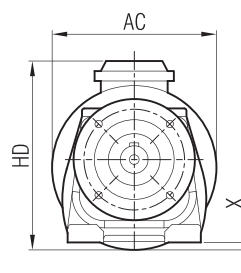
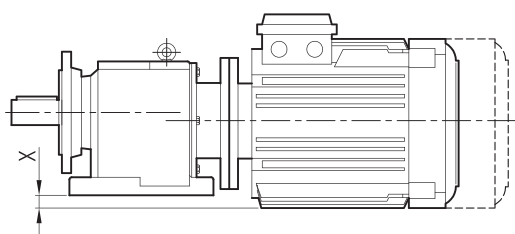
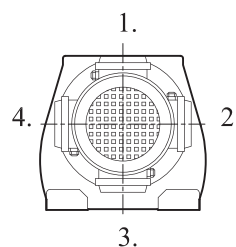


İRAFPM 102

İRAFPM 103



Posiciones Caja de Bornes Terminal Box Positions Klemmenkasten Positionen

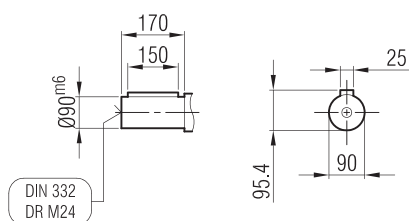
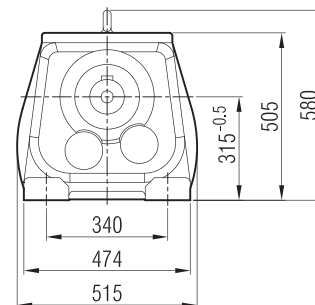
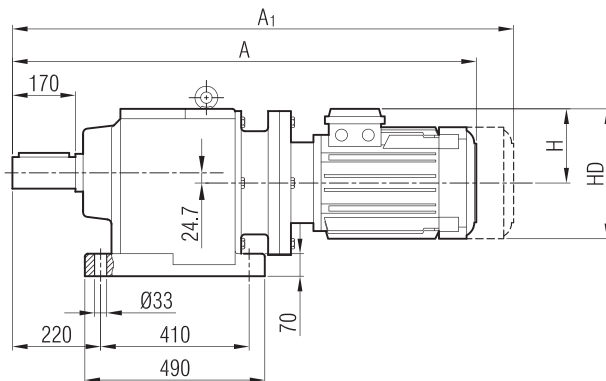


	56/B5	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5	160 M/B5	160 L/B5	180 M/B5	180 L/B5	200/B5	225 S/B5	225 M/B5
A							902	923	989	1035	1112	1156	1170	1208	1326	1351	1376
A ₁							992	1048	1094	1140	1232	1276	1290	1328	-	-	-
H							141	149	182	182	225	225	248	248	275	285	285
HD							241	261	314	314	385	385	428	428	425	510	510
AC							217	232	279	279	325	325	370	370	415	456	456
X							-	-	-	-	-	-	-	-	-	-	-

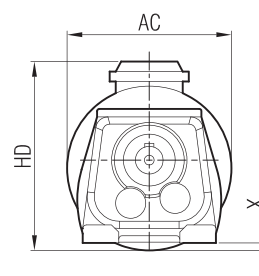
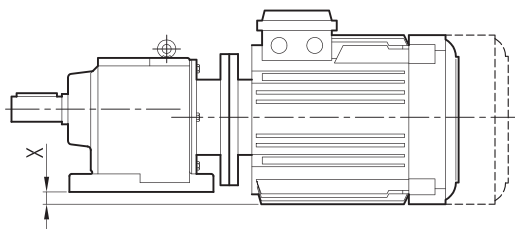
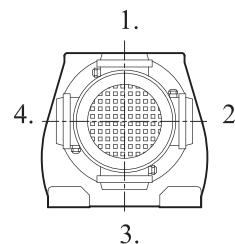
La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MaB "A1" ist für Motoren mit Bremse



İRAPM 122
İRAPM 123



Posiciones Caja de Bornes
Terminal Box Positions
Klemmenkasten Positionen



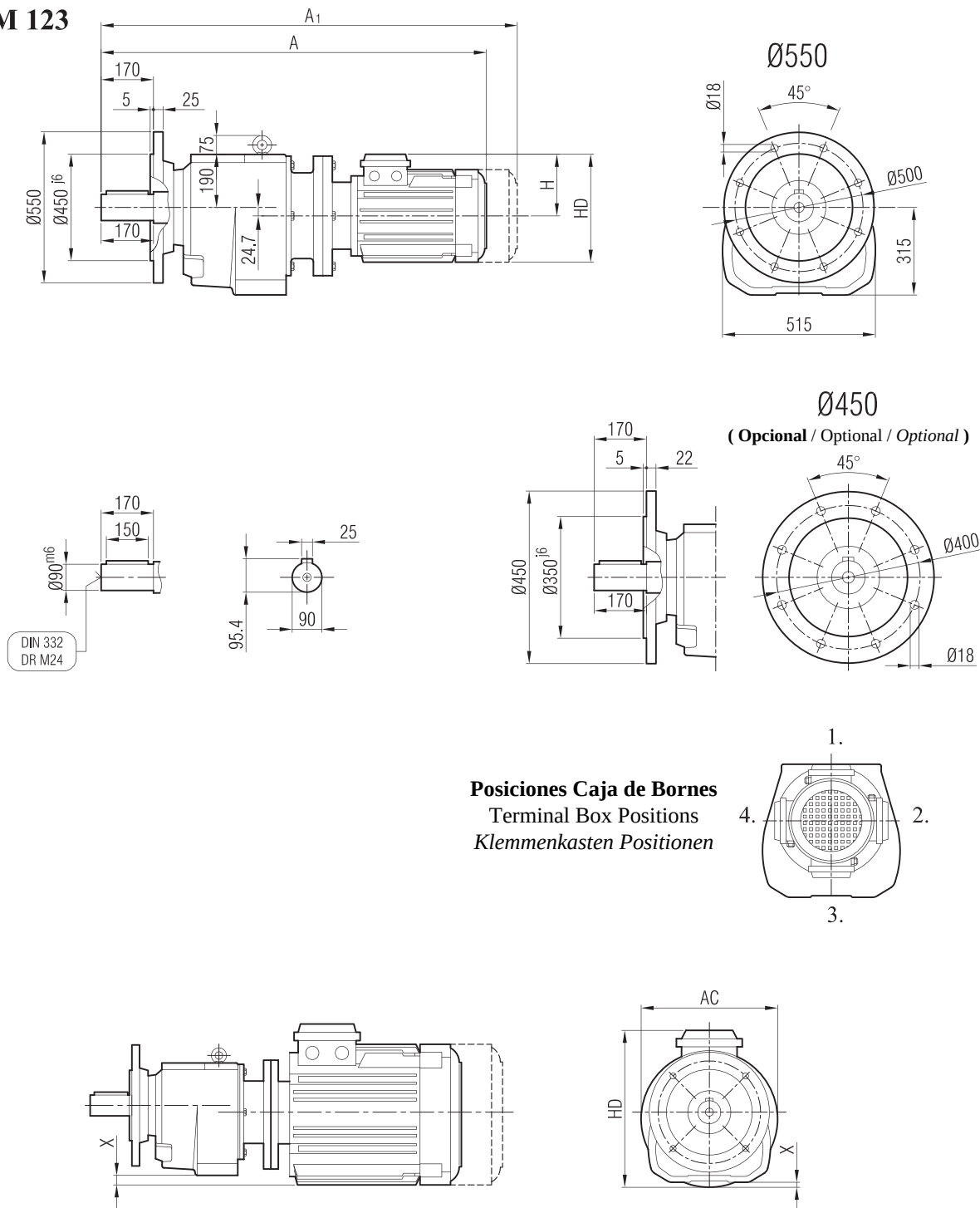
	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5	160 M/B5	160 L/B5	180 M/B5	180 L/B5	200/B5	225 S/B5	225 M/B5	250/B5
A								1038	1084	1184	1228	1242	1280	1398	1423	1448	1526
A ₁								1180	1226	1374	1418	1437	1475	-	-	-	-
H								182	182	225	225	248	248	275	285	285	322
HD								314	314	385	385	428	428	425	510	510	572
AC								279	279	325	325	370	370	415	456	456	480
X								-	-	-	-	-	-	-	-	-	-

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MaB "A1" ist für Motoren mit Bremse



IRFPM 122

IRFPM 123



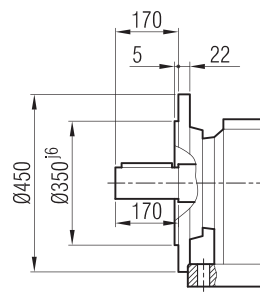
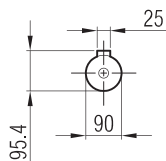
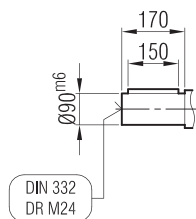
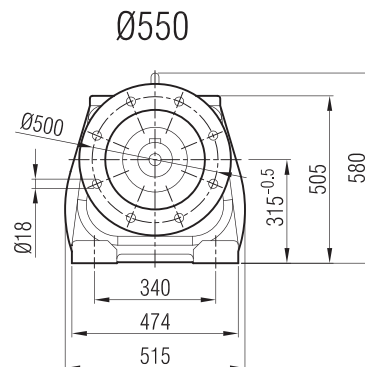
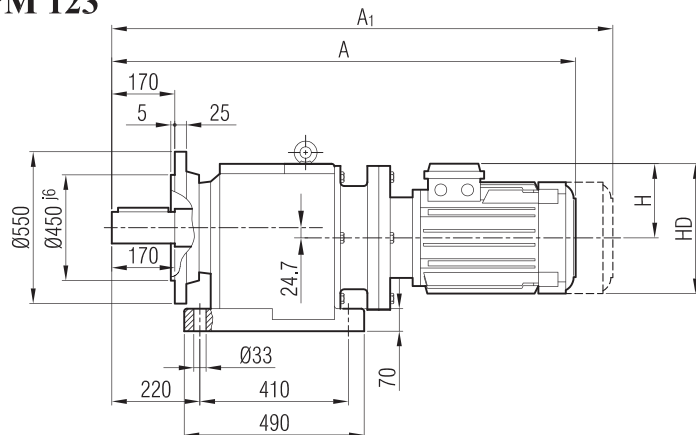
	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5	160 M/B5	160 L/B5	180 M/B5	180 L/B5	200/B5	225 S/B5	225 M/B5	250/B5
A								1038	1084	1184	1228	1242	1280	1398	1423	1448	1526
A ₁								1180	1226	1374	1418	1437	1475	-	-	-	-
H								182	182	225	225	248	248	275	285	285	322
HD								314	314	385	385	428	428	425	510	510	572
AC								279	279	325	325	370	370	415	456	456	480
X								-	-	-	-	-	-	-	-	-	-

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MaB "A1" ist für Motoren mit Bremse

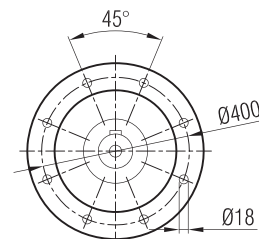


İRAFPM 122

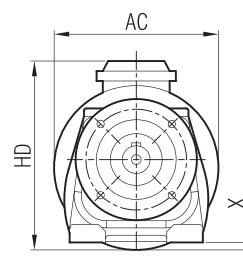
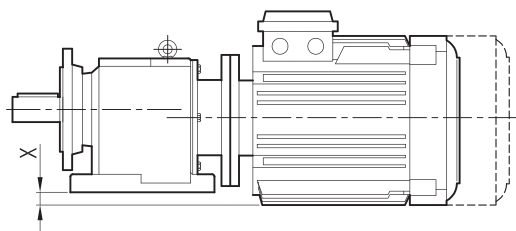
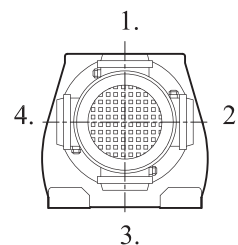
İRAFPM 123



Ø450 (Opcional / Optional / Optional)



Posiciones Caja de Bornes Terminal Box Positions Klemmenkasten Positionen



	63/B5	71/B5	80/B5	90 S/B5	90 L/B5	100/B5	112/ B5	132 S/B5	132 M/B5	160 M/B5	160 L/B5	180 M/B5	180 L/B5	200/B5	225 S/B5	225 M/B5	250/B5
A								1038	1084	1184	1228	1242	1280	1398	1423	1448	1526
A ₁								1180	1226	1374	1418	1437	1475	-	-	-	-
H								182	182	225	225	248	248	275	285	285	322
HD								314	314	385	385	428	428	425	510	510	572
AC								279	279	325	325	370	370	415	456	456	480
X								-	-	-	-	-	-	-	-	-	-

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MaB "A1" ist für Motoren mit Bremse

Monobloc Helicoidal Reductores

Monoblock Helical Gear Unit

Monoblock Stirnradgetriebe



IRAP ...



IRAFP ...

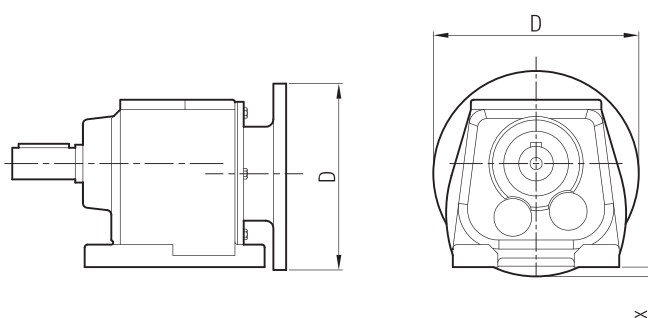
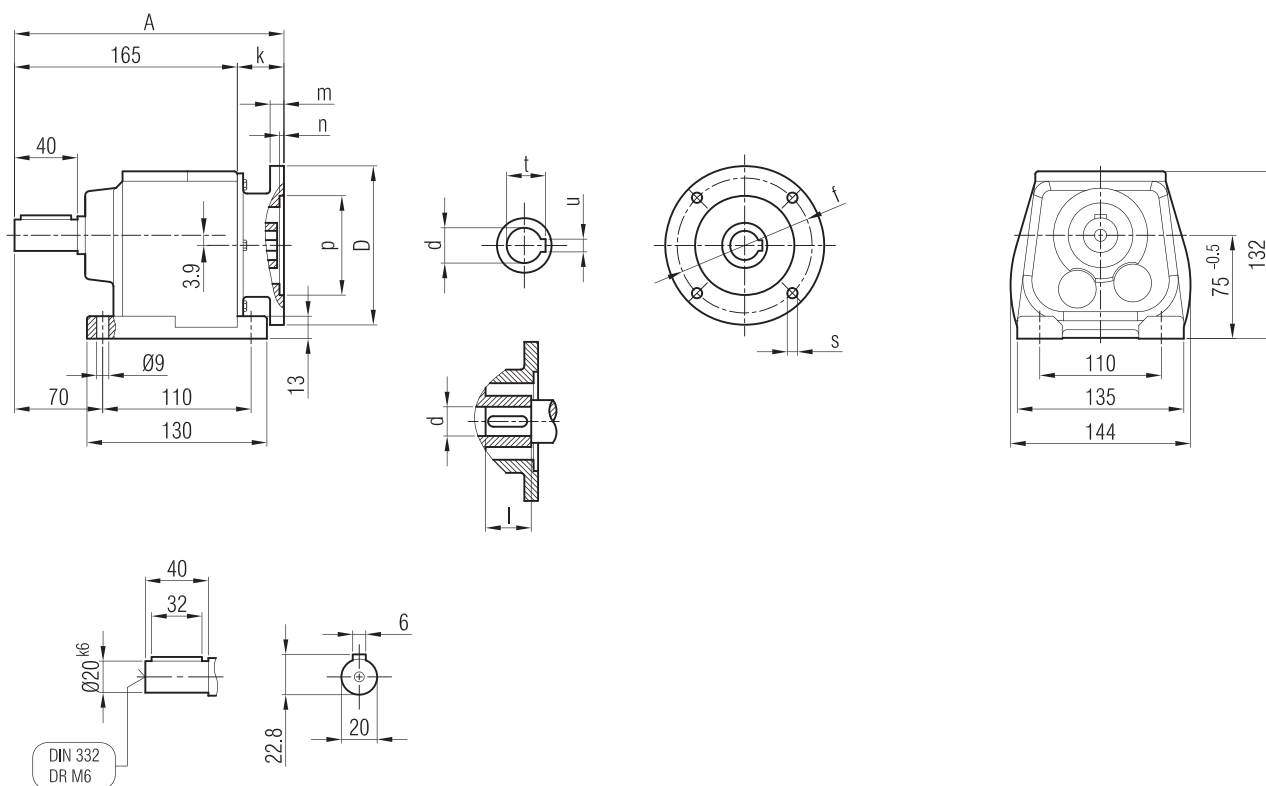


IRFP ...



İRAP 42

İRAP 43

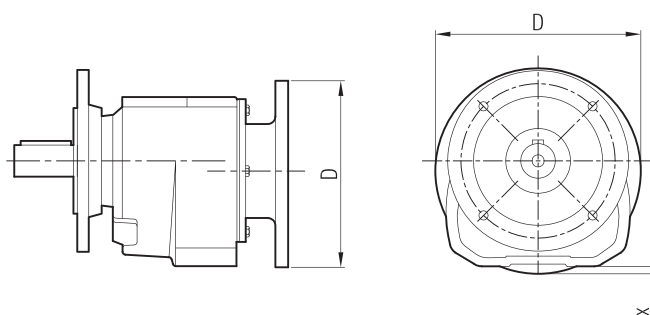
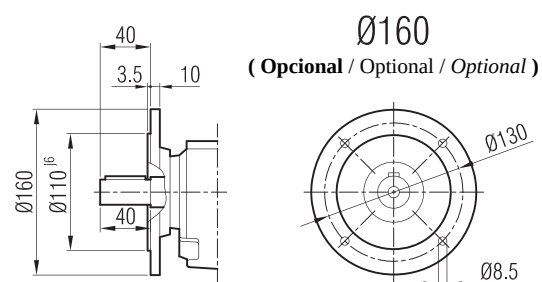
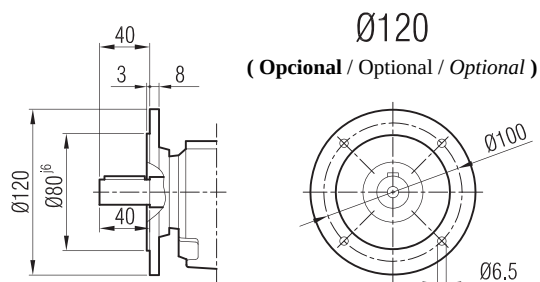
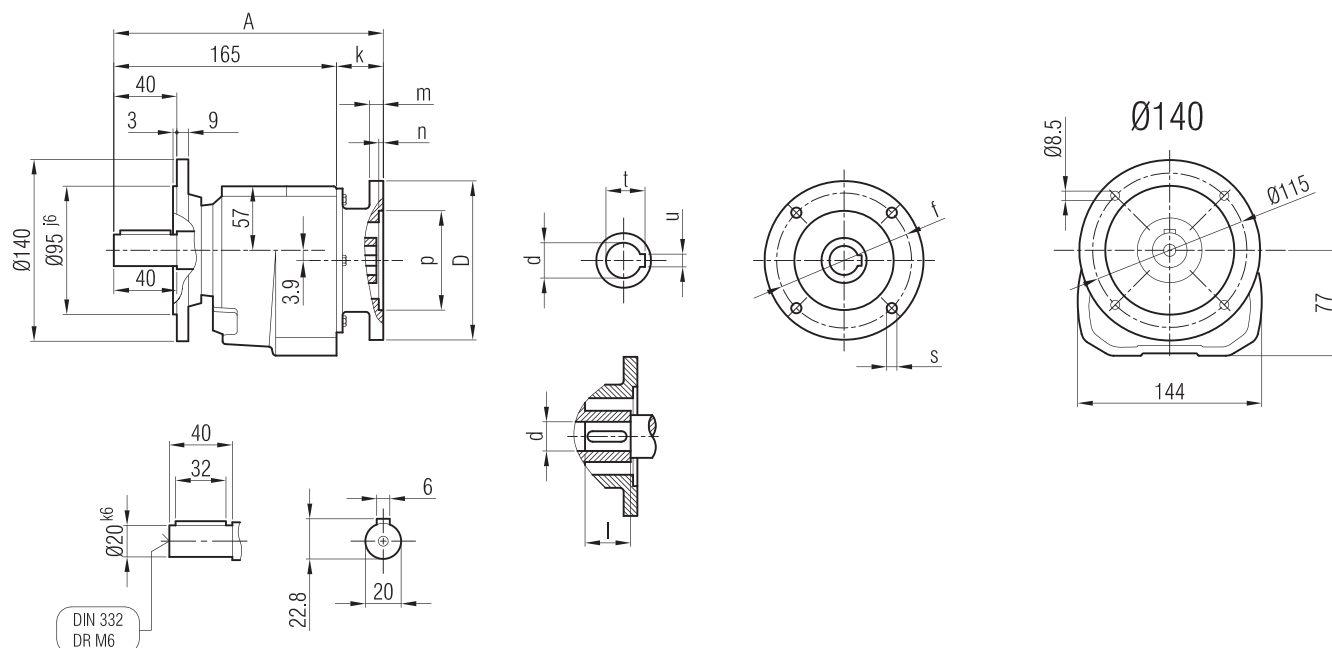


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
63/B5	200.5	95	115	140	M8	35.5	8	4	11	23	12.8	4	-				
71/B5	209	110	130	160	M8	44	9	4	14	30	16.3	5	-				
80/B5	211	130	165	200	M10	46	12	5	19	40	21.8	6	29				
90/B5	211	130	165	200	M10	46	12	5	24	50	27.3	8	29				



İRFP 42

İRFP 43

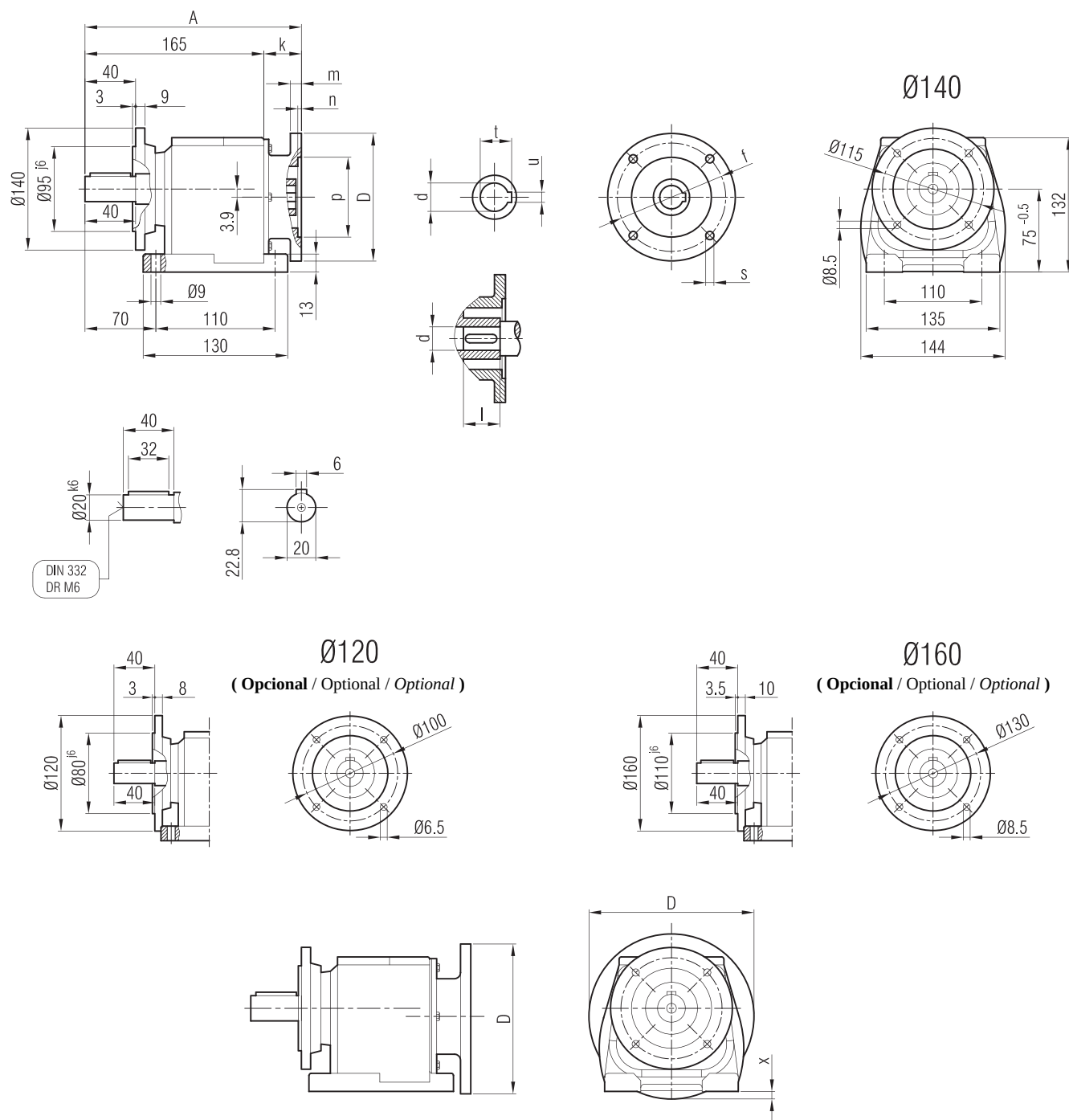


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
63/B5	200.5	95	115	140	M8	35.5	8	4	11	23	12.8	4	-				
71/B5	209	110	130	160	M8	44	9	4	14	30	16.3	5	-				
80/B5	211	130	165	200	M10	46	12	5	19	40	21.8	6	27				
90/B5	211	130	165	200	M10	46	12	5	24	50	27.3	8	27				



IRA FP 42

İRAFP 43

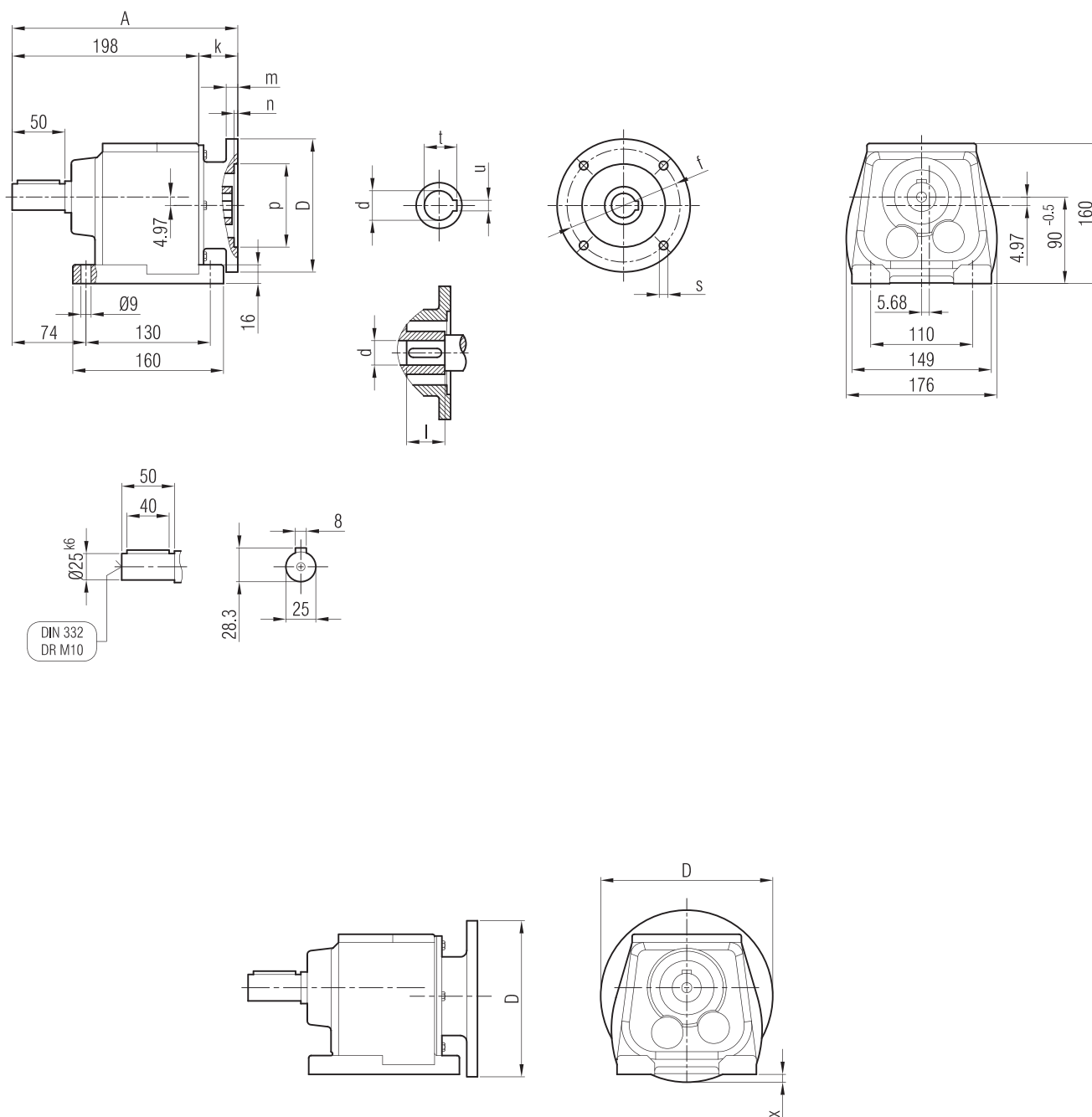


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
63/B5	200.5	95	115	140	M8	35.5	8	4	11	23	12.8	4	-				
71/B5	209	110	130	160	M8	44	9	4	14	30	16.3	5	-				
80/B5	211	130	165	200	M10	46	12	5	19	40	21.8	6	29				
90/B5	211	130	165	200	M10	46	12	5	24	50	27.3	8	29				



İRAP 52

İRAP 53

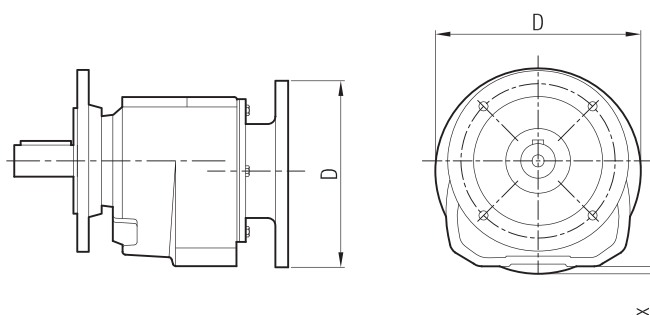
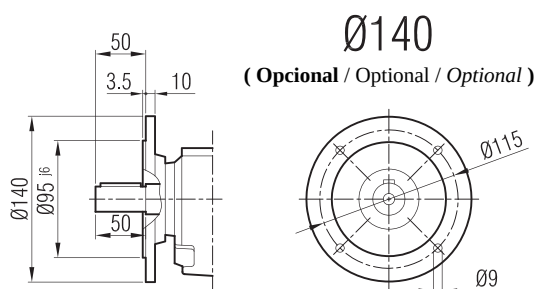
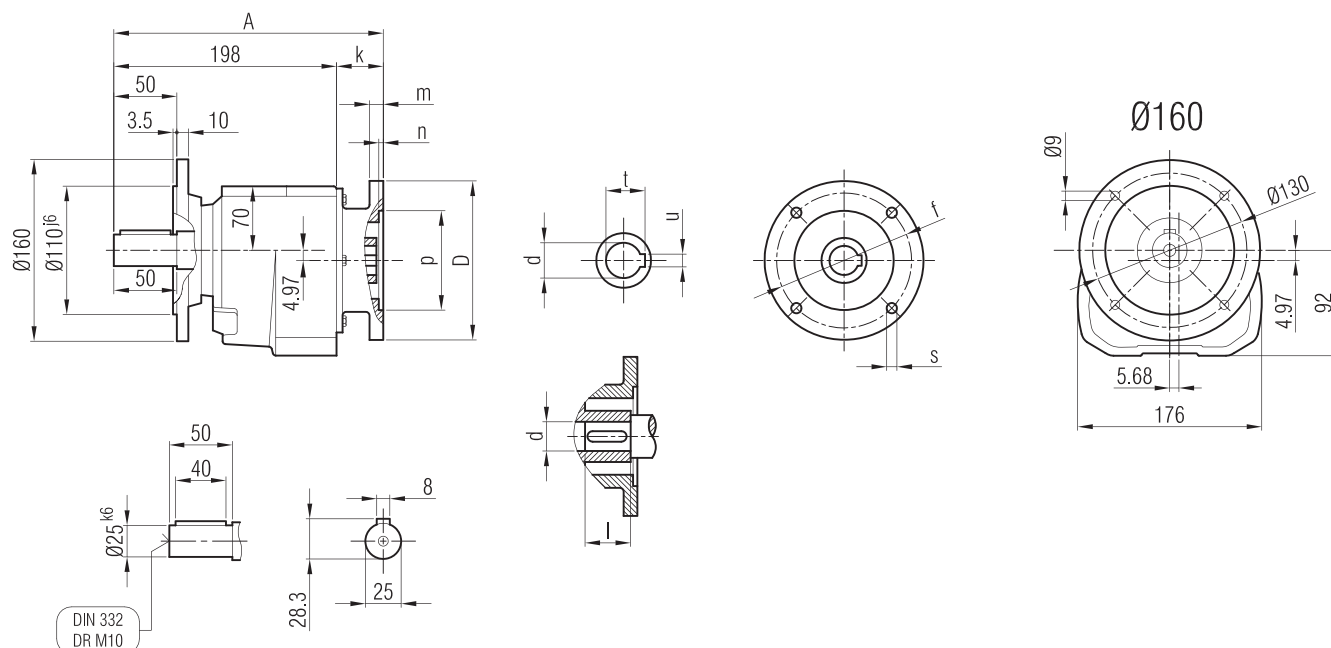


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
63/B5	233.5	95	115	140	M8	35.5	8	4	11	23	12.8	4	-				
71/B5	242	110	130	160	M8	44	9	4	14	30	16.3	5	-				
80/B5	244	130	165	200	M10	46	12	5	19	40	21.8	6	15				
90/B5	244	130	165	200	M10	46	12	5	24	50	27.3	8	15				
100/B5	258	180	215	250	M12	60	14	5	28	60	31.3	8	40				



İRFP 52

IRFP 53

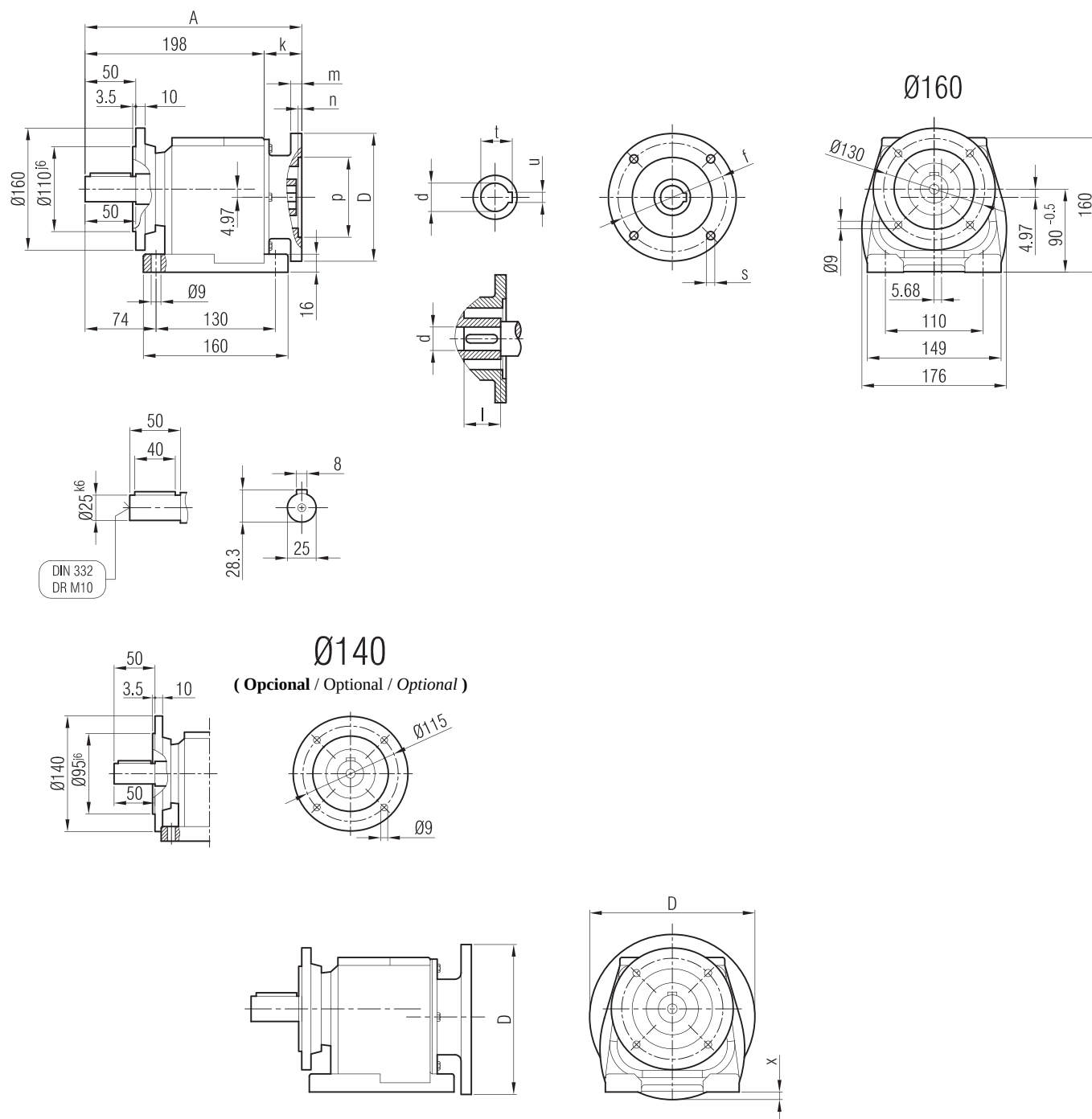


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
63/B5	233.5	95	115	140	M8	35.5	8	4	11	23	12.8	4	-				
71/B5	242	110	130	160	M8	44	9	4	14	30	16.3	5	-				
80/B5	244	130	165	200	M10	46	12	5	19	40	21.8	6	13				
90/B5	244	130	165	200	M10	46	12	5	24	50	27.3	8	13				
100/B5	258	180	215	250	M12	60	14	5	28	60	31.3	8	38				



IRA FP 52

IRA FP 53

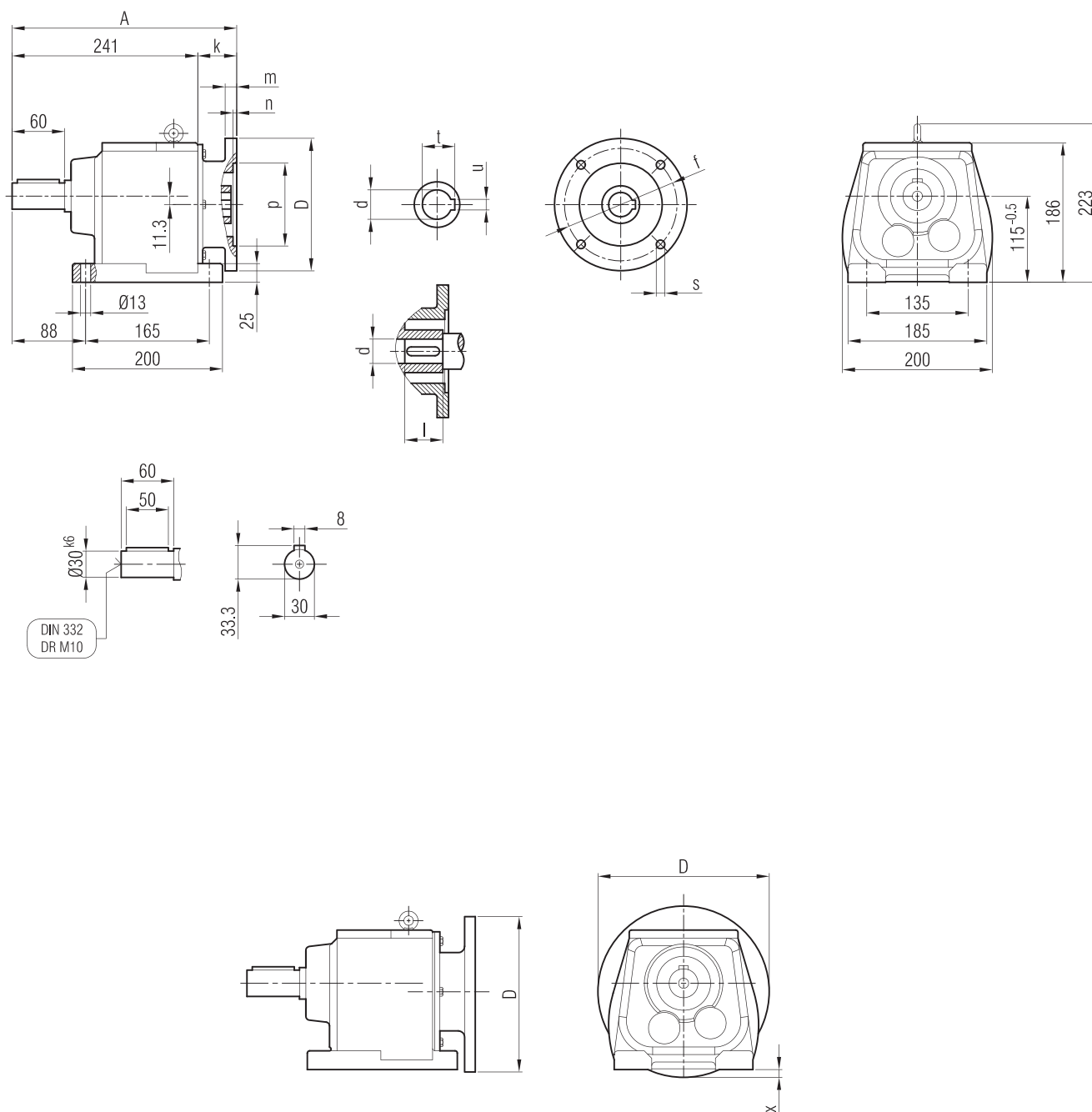


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
63/B5	233.5	95	115	140	M8	35.5	8	4	11	23	12.8	4	-				
71/B5	242	110	130	160	M8	44	9	4	14	30	16.3	5	-				
80/B5	244	130	165	200	M10	46	12	5	19	40	21.8	6	15				
90/B5	244	130	165	200	M10	46	12	5	24	50	27.3	8	15				
100/B5	258	180	215	250	M12	60	14	5	28	60	31.3	8	40				



İRAP 621

İRAP 631

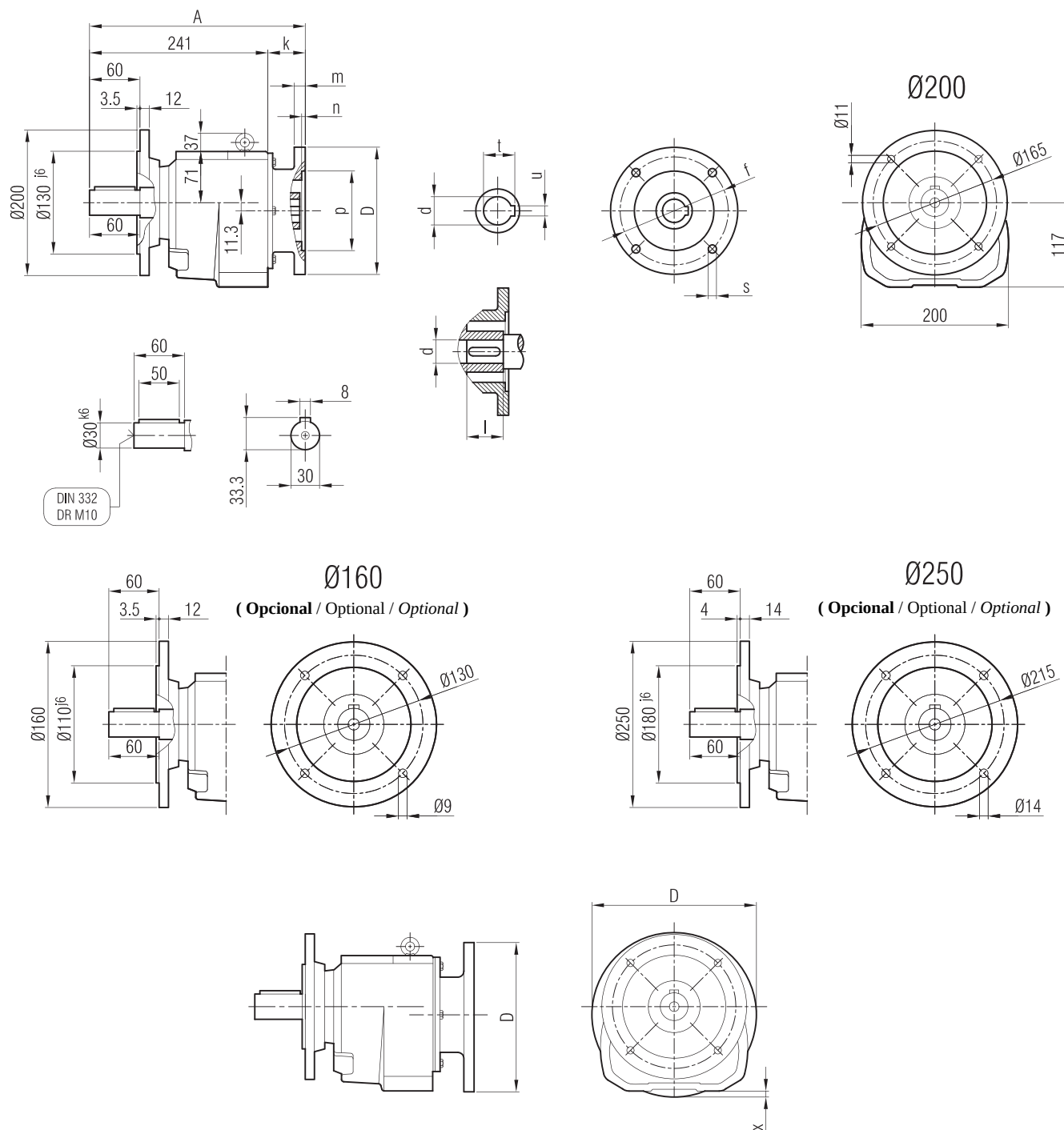


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
63/B5	276.5	95	115	140	M8	35.5	8	4	11	23	12.8	4	-				
71/B5	286	110	130	160	M8	45	9	4	14	30	16.3	5	-				
80/B5	291	130	165	200	M10	50	12	5	19	40	21.8	6	-				
90/B5	291	130	165	200	M10	50	12	5	24	50	27.3	8	-				
100/B5	304	180	215	250	M12	63	14	5	28	60	31.3	8	22				
112/B5	304	180	215	250	M12	63	14	5	28	60	31.3	8	22				
132/B5	320	230	265	300	M12	79	17	6	38	60	41.3	10	47				



IRFP 621

IRFP 631

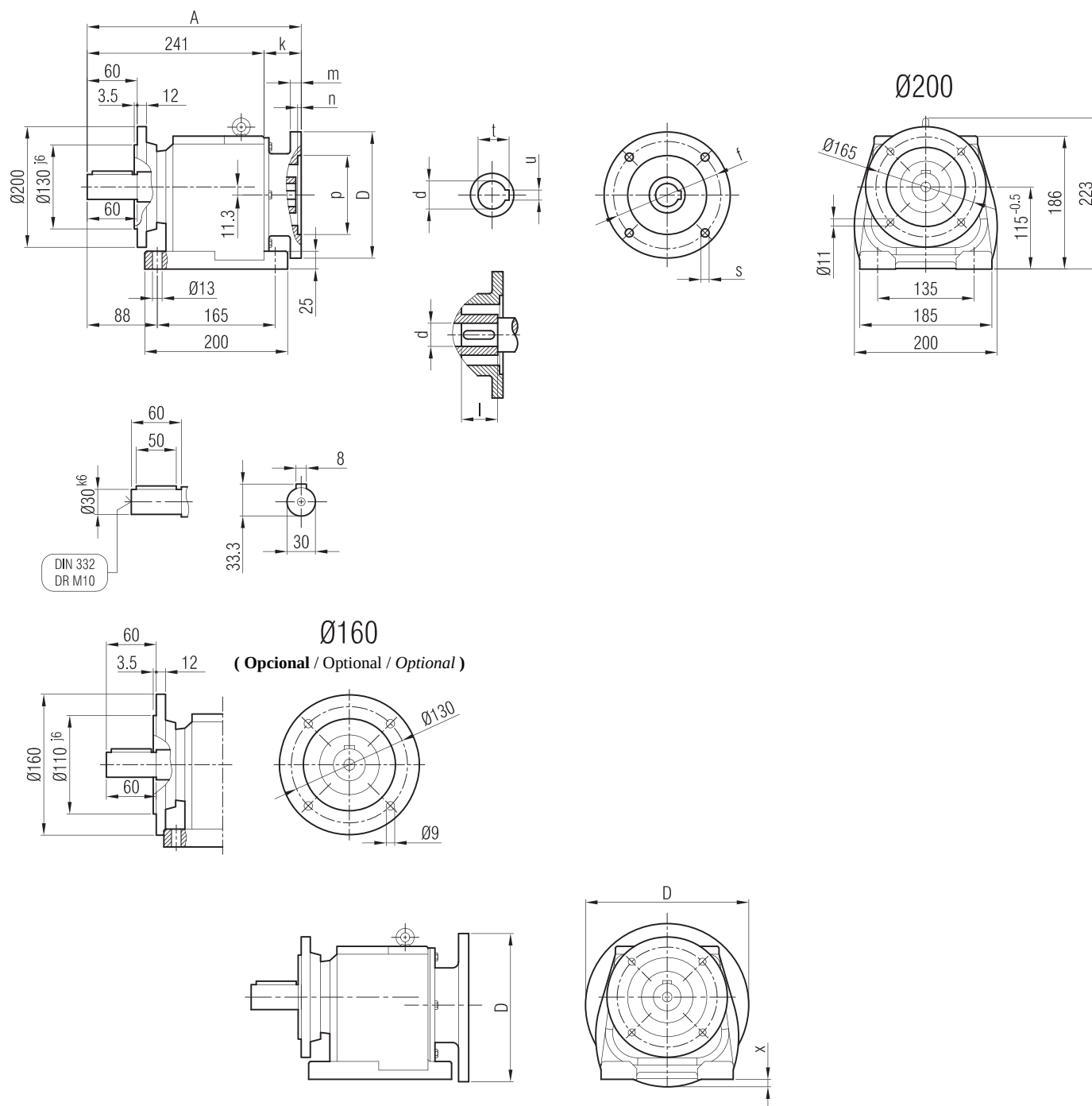


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
63/B5	276.5	95	115	140	M8	35,5	8	4	11	23	12.8	4	-				
71/B5	286	110	130	160	M8	45	9	4	14	30	16.3	5	-				
80/B5	291	130	165	200	M10	50	12	5	19	40	21.8	6	-				
90/B5	291	130	165	200	M10	50	12	5	24	50	27.3	8	-				
100/B5	304	180	215	250	M12	63	14	5	28	60	31.3	8	20				
112/B5	304	180	215	250	M12	63	14	5	28	60	31.3	8	20				
132/B5	320	230	265	300	M12	79	17	6	38	60	41.3	10	45				



İRAFP 621

IRAFP 631

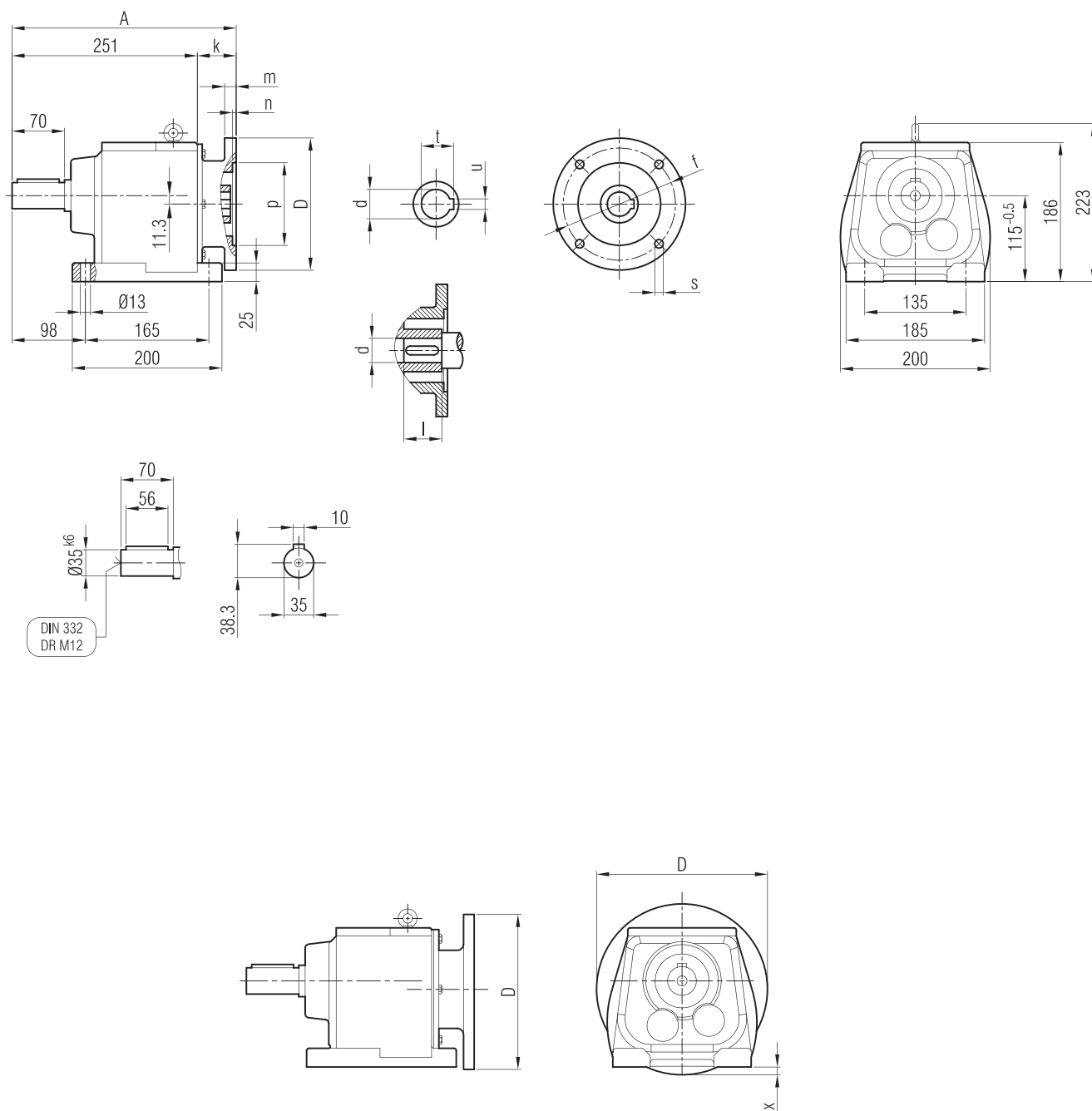


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
63/B5	276.5	95	115	140	M8	35,5	8	4	11	23	12.8	4	-				
71/B5	286	110	130	160	M8	45	9	4	14	30	16.3	5	-				
80/B5	291	130	165	200	M10	50	12	5	19	40	21.8	6	-				
90/B5	291	130	165	200	M10	50	12	5	24	50	27.3	8	-				
100/B5	304	180	215	250	M12	63	14	5	28	60	31.3	8	22				
112/B5	304	180	215	250	M12	63	14	5	28	60	31.3	8	22				
132/B5	320	230	265	300	M12	79	17	6	38	60	41.3	10	47				



IRAP 62

IRAP 63

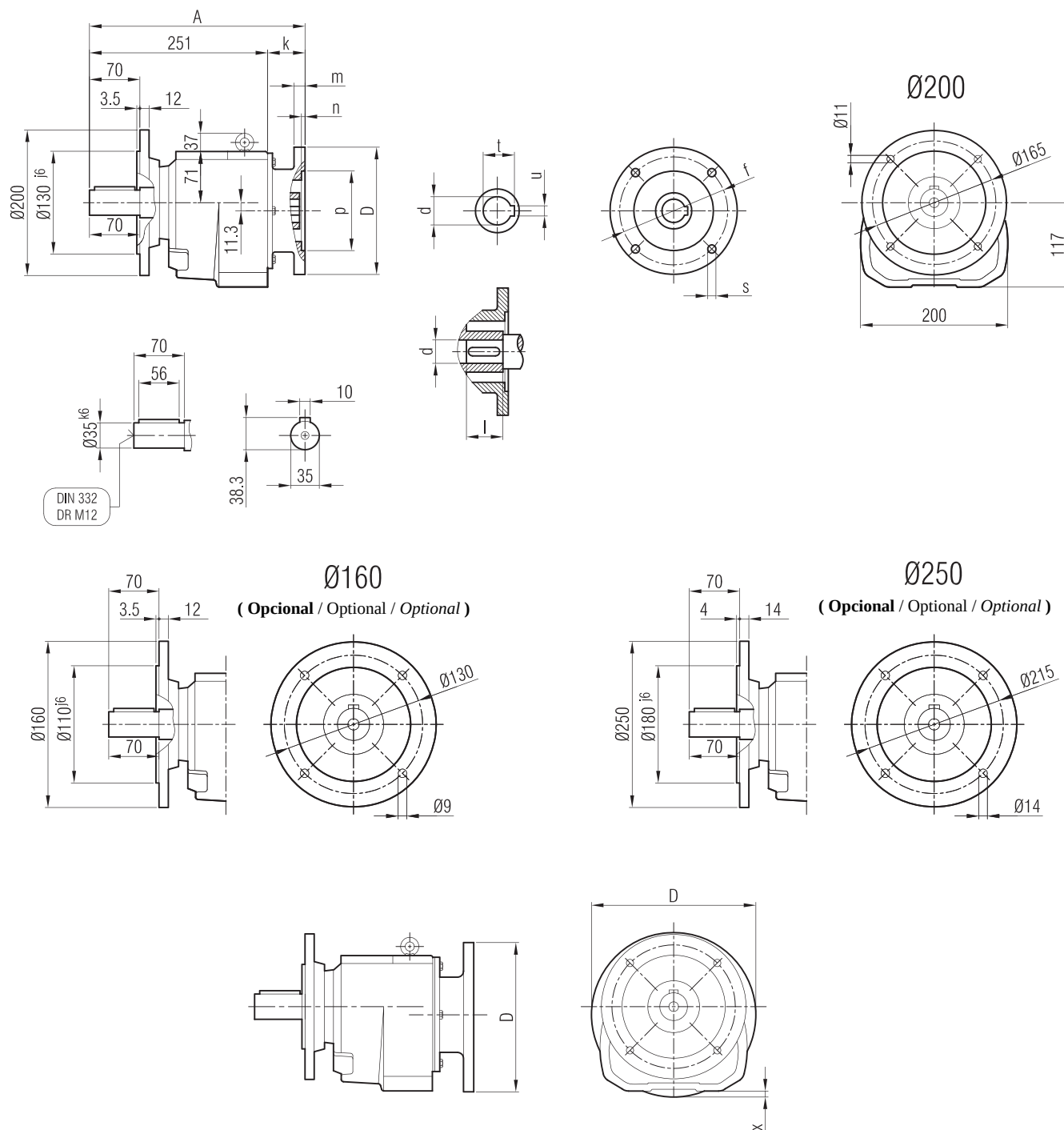


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
63/B5	286.5	95	115	140	M8	35.5	8	4	11	23	12.8	4	-				
71/B5	296	110	130	160	M8	45	9	4	14	30	16.3	5	-				
80/B5	301	130	165	200	M10	50	12	5	19	40	21.8	6	-				
90/B5	301	130	165	200	M10	50	12	5	24	50	27.3	8	-				
100/B5	314	180	215	250	M12	63	14	5	28	60	31.3	8	22				
112/B5	314	180	215	250	M12	63	14	5	28	60	31.3	8	22				
132/B5	330	230	265	300	M12	79	17	6	38	60	41.3	10	47				



IRFP 62

IRFP 63

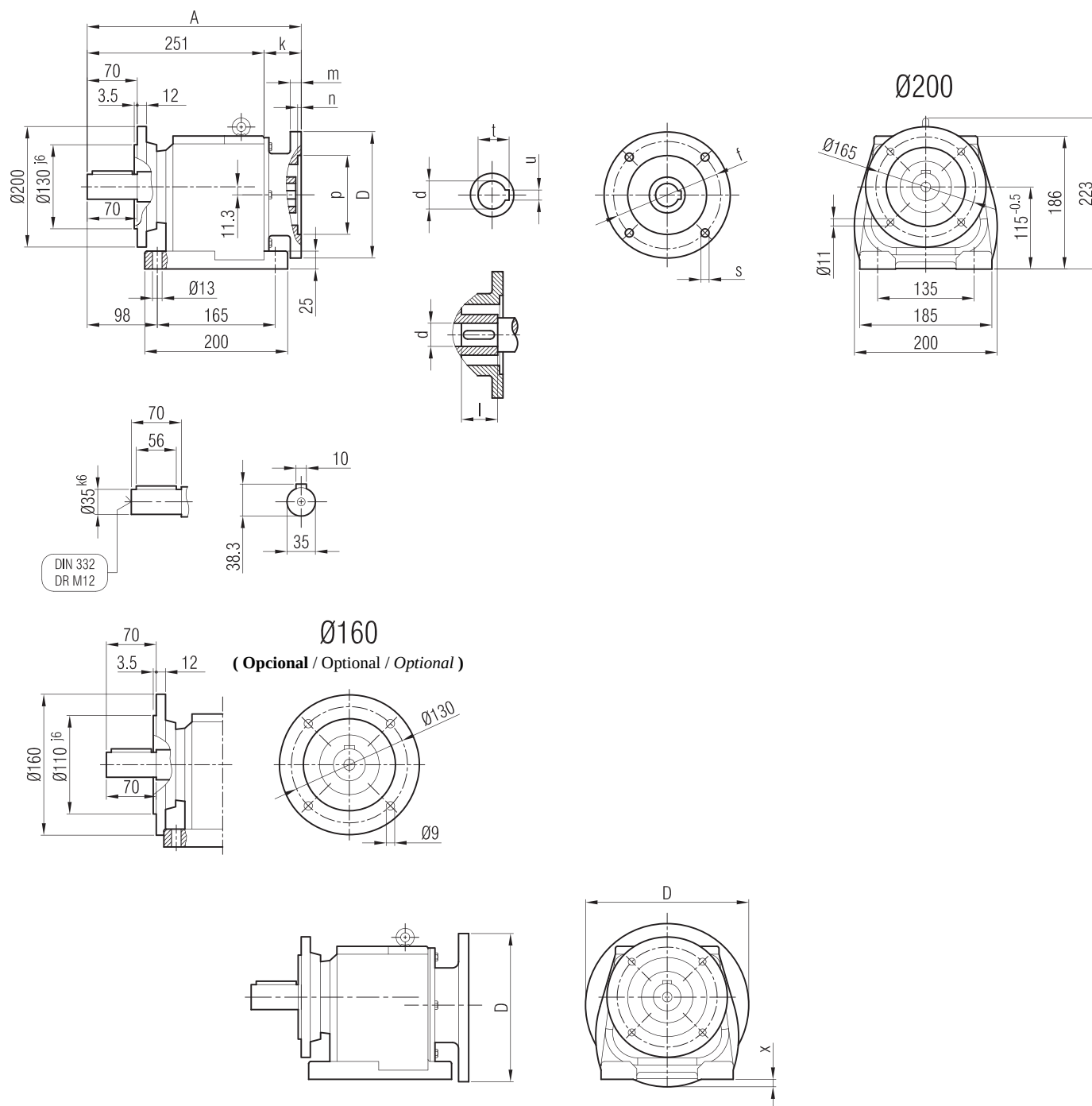


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
63/B5	286.5	95	115	140	M8	35,5	8	4	11	23	12.8	4	-				
71/B5	296	110	130	160	M8	45	9	4	14	30	16.3	5	-				
80/B5	301	130	165	200	M10	50	12	5	19	40	21.8	6	-				
90/B5	301	130	165	200	M10	50	12	5	24	50	27.3	8	-				
100/B5	314	180	215	250	M12	63	14	5	28	60	31.3	8	20				
112/B5	314	180	215	250	M12	63	14	5	28	60	31.3	8	20				
132/B5	330	230	265	300	M12	79	17	6	38	60	41.3	10	45				



IRA FP 62

İRAFP 63

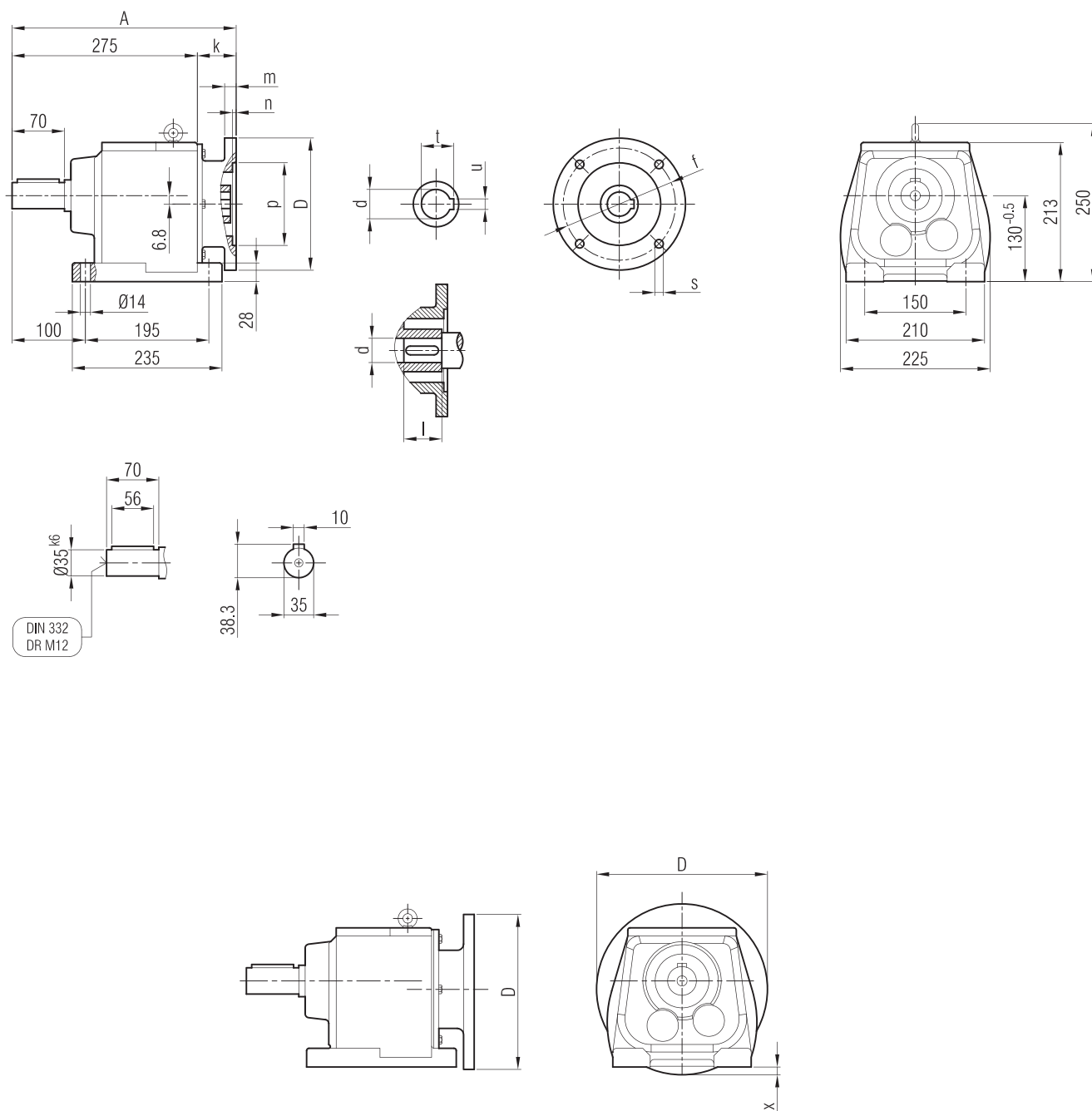


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
63/B5	286.5	95	115	140	M8	35,5	8	4	11	23	12.8	4	-				
71/B5	296	110	130	160	M8	45	9	4	14	30	16.3	5	-				
80/B5	301	130	165	200	M10	50	12	5	19	40	21.8	6	-				
90/B5	301	130	165	200	M10	50	12	5	24	50	27.3	8	-				
100/B5	314	180	215	250	M12	63	14	5	28	60	31.3	8	22				
112/B5	314	180	215	250	M12	63	14	5	28	60	31.3	8	22				
132/B5	330	230	265	300	M12	79	17	6	38	60	41.3	10	47				



İRAP 721

İRAP 731

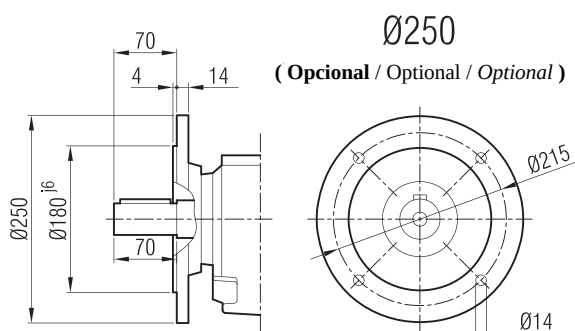
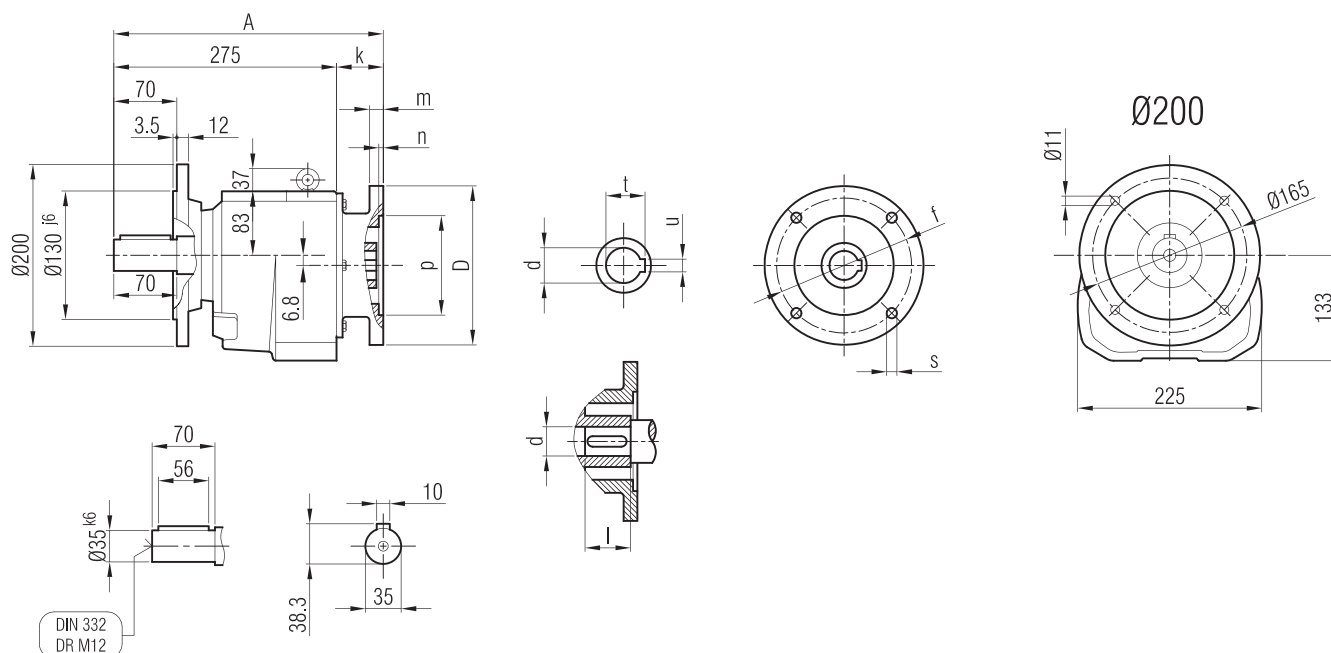


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
71/B5	330	110	130	160	M8	55	10	4	14	30	16.3	5	-				
80/B5	342	130	165	200	M10	67	12	5	19	40	21.8	6	-				
90/B5	342	130	165	200	M10	67	12	5	24	50	27.3	8	-				
100/B5	346.5	180	215	250	M12	71.5	14	5	28	60	31.3	8	1.8				
112/B5	346.5	180	215	250	M12	71.5	14	5	28	60	31.3	8	1.8				
132/B5	370.5	230	265	300	M12	95.5	17	5	38	80	41.3	10	26.8				

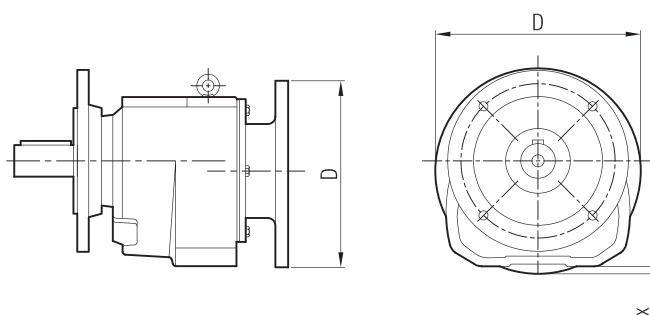


İRFP 721

İRFP 731



(Optional / Optional / Optional)

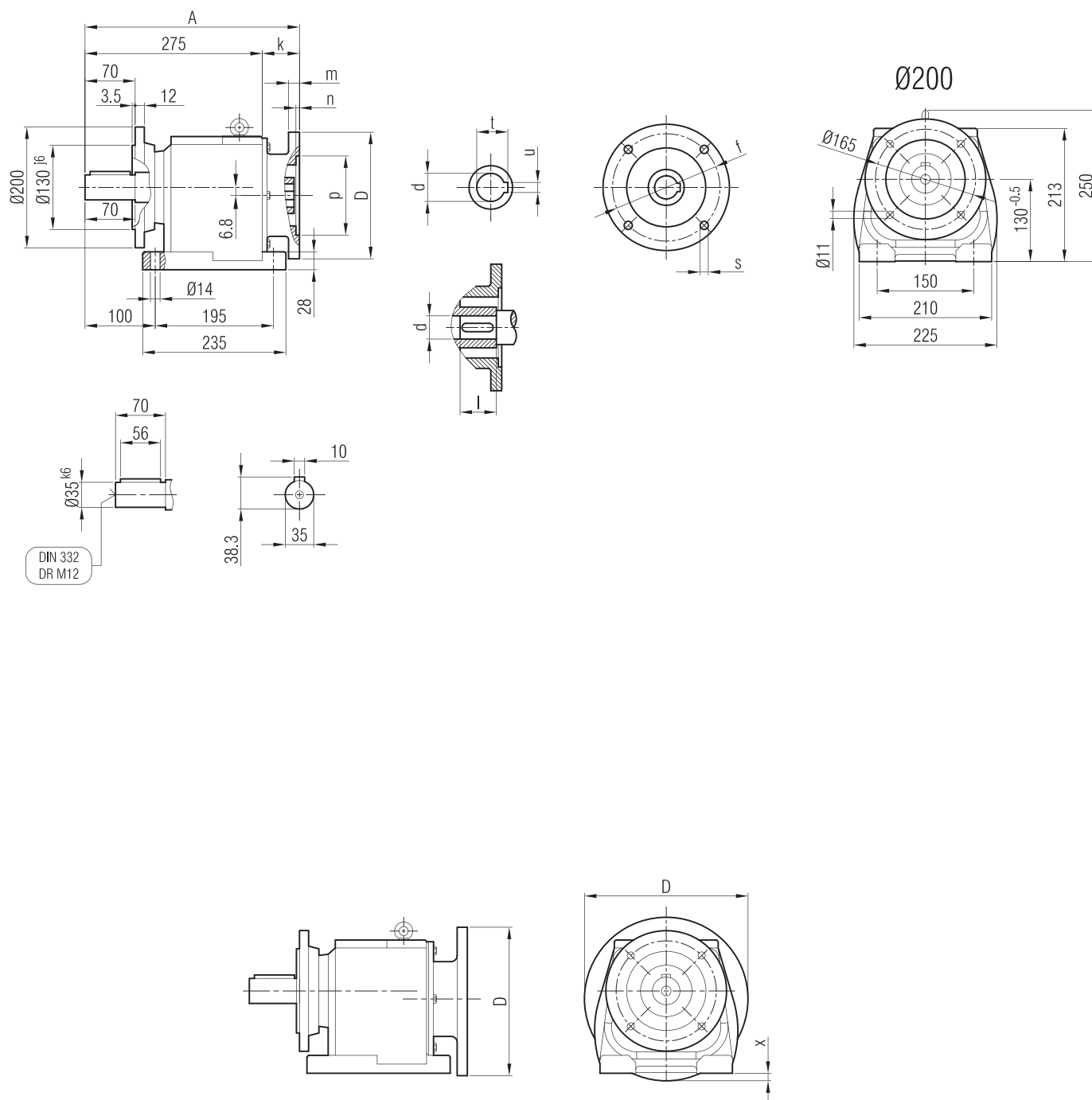


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
71/B5	330	110	130	160	M8	55	10	4	14	30	16.3	5	-				
80/B5	342	130	165	200	M10	67	12	5	19	40	21.8	6	-				
90/B5	342	130	165	200	M10	67	12	5	24	50	27.3	8	-				
100/B5	346.5	180	215	250	M12	71.5	14	5	28	60	31.3	8	-				
112/B5	346.5	180	215	250	M12	71.5	14	5	28	60	31.3	8	-				
132/B5	370.5	230	265	300	M12	95.5	17	5	38	80	41.3	10	23.8				



İRAFP 721

IRAFP 731

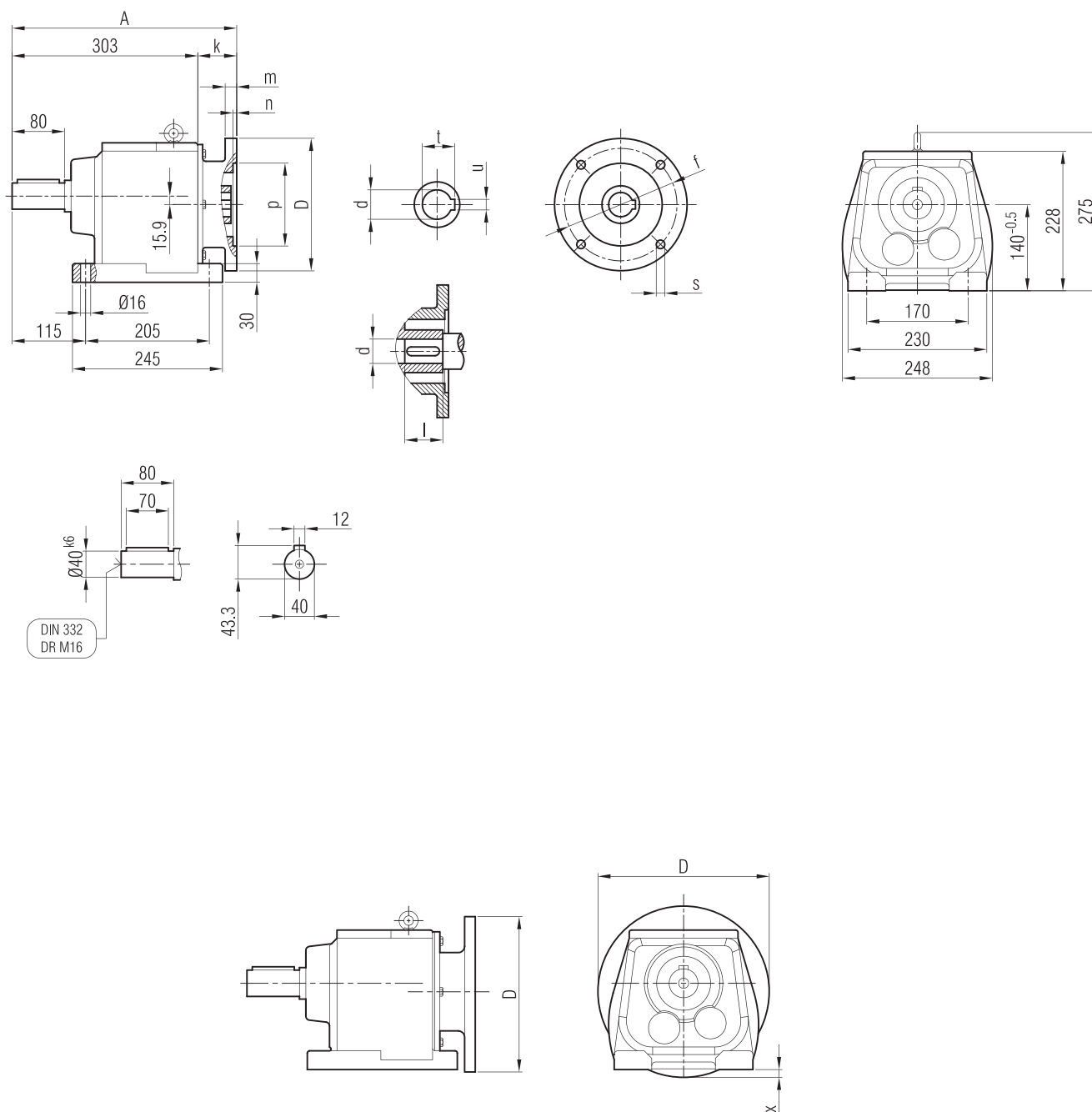


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
71/B5	330	110	130	160	M8	55	10	4	14	30	16.3	5	-				
80/B5	342	130	165	200	M10	67	12	5	19	40	21.8	6	-				
90/B5	342	130	165	200	M10	67	12	5	24	50	27.3	8	-				
100/B5	346.5	180	215	250	M12	71.5	14	5	28	60	31.3	8	1.8				
112/B5	346.5	180	215	250	M12	71.5	14	5	28	60	31.3	8	1.8				
132/B5	370.5	230	265	300	M12	95.5	17	5	38	80	41.3	10	26.8				



İRAP 72

İRAP 73

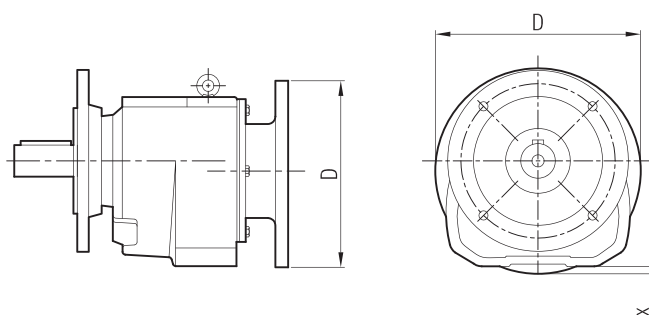
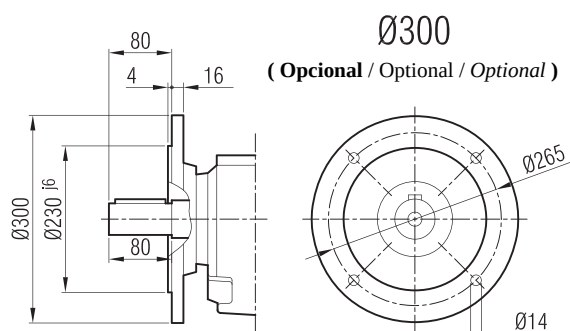
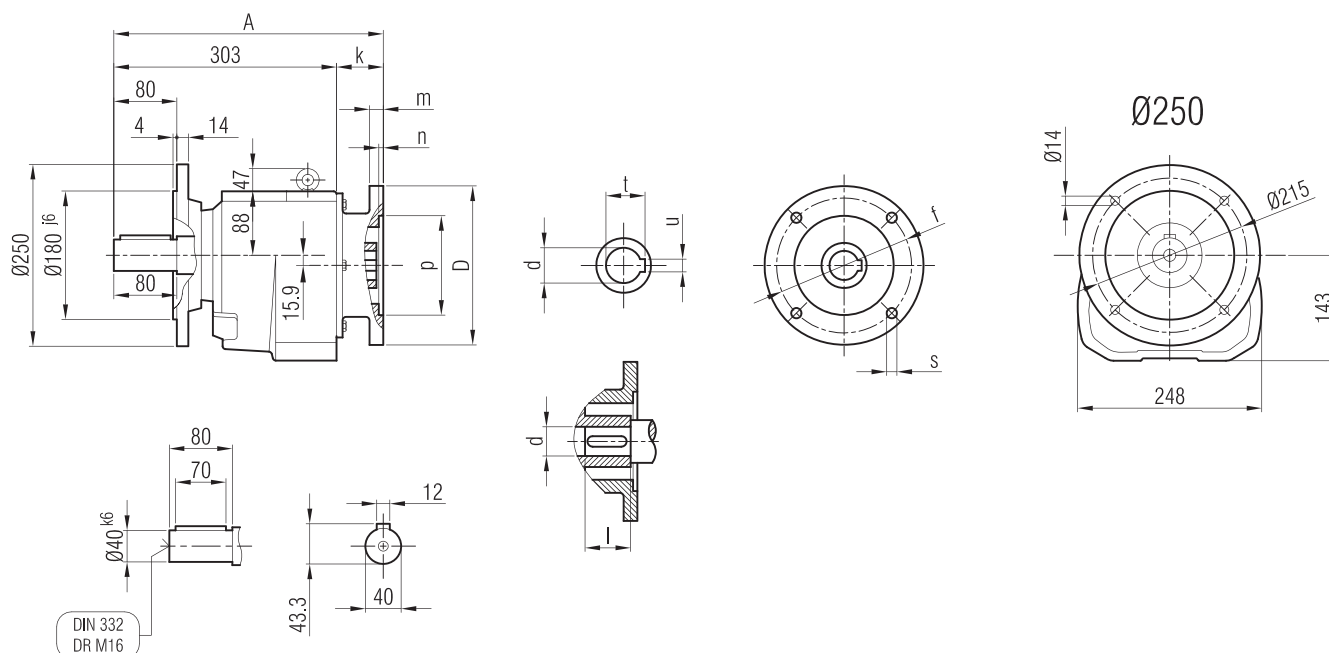


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
71/B5	358	110	130	160	M8	55	10	4	14	30	16.3	5	-				
80/B5	370	130	165	200	M10	67	12	5	19	40	21.8	6	-				
90/B5	370	130	165	200	M10	67	12	5	24	50	27.3	8	-				
100/B5	374.5	180	215	250	M12	71.5	14	5	28	60	31.3	8	1				
112/B5	374.5	180	215	250	M12	71.5	14	5	28	60	31.3	8	1				
132/B5	398.5	230	265	300	M12	95.5	17	5	38	80	41.3	10	26				



İRFP 72

IRFP 73

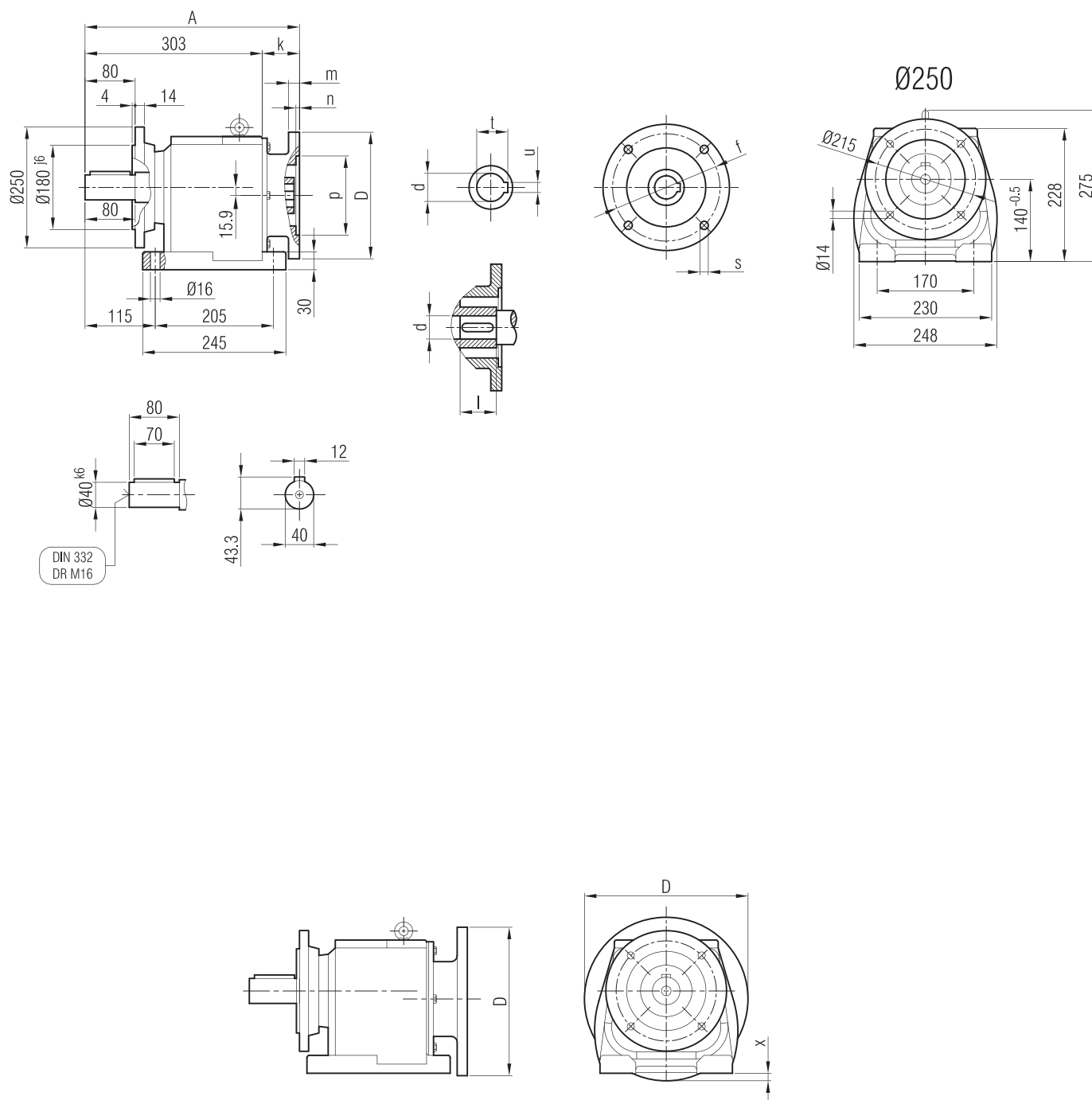


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
71/B5	358	110	130	160	M8	55	10	4	14	30	16.3	5	-				
80/B5	370	130	165	200	M10	67	12	5	19	40	21.8	6	-				
90/B5	370	130	165	200	M10	67	12	5	24	50	27.3	8	-				
100/B5	374.5	180	215	250	M12	71.5	14	5	28	60	31.3	8	-				
112/B5	374.5	180	215	250	M12	71.5	14	5	28	60	31.3	8	-				
132/B5	398.5	230	265	300	M12	95.5	17	5	38	80	41.3	10	23				



IRA FP 72

İRAFP 73

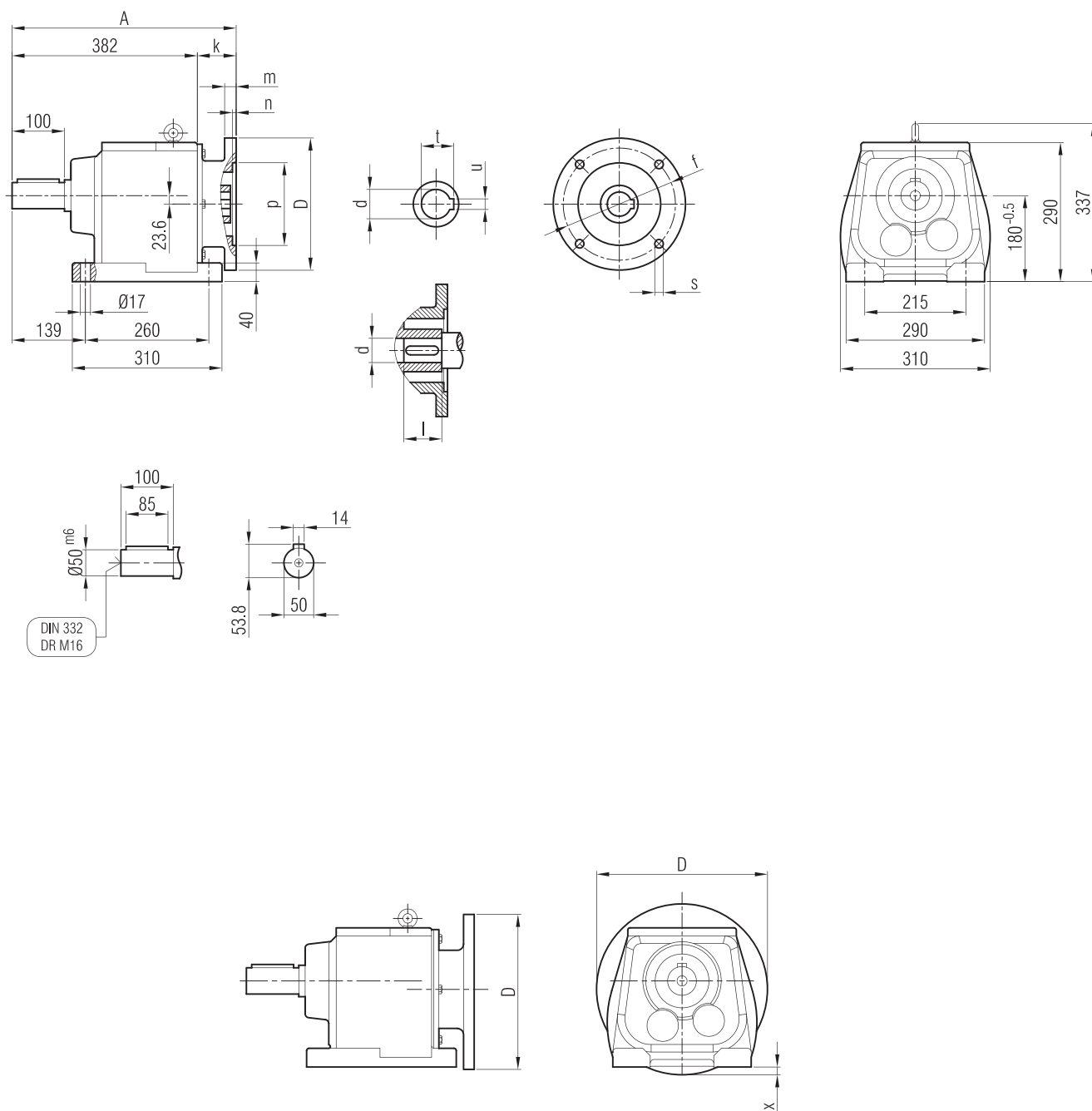


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
71/B5	358	110	130	160	M8	55	10	4	14	30	16.3	5	-				
80/B5	370	130	165	200	M10	67	12	5	19	40	21.8	6	-				
90/B5	370	130	165	200	M10	67	12	5	24	50	27.3	8	-				
100/B5	374.5	180	215	250	M12	71.5	14	5	28	60	31.3	8	1				
112/B5	374.5	180	215	250	M12	71.5	14	5	28	60	31.3	8	1				
132/B5	398.5	230	265	300	M12	95.5	17	5	38	80	41.3	10	26				



İRAP 82

İRAP 83

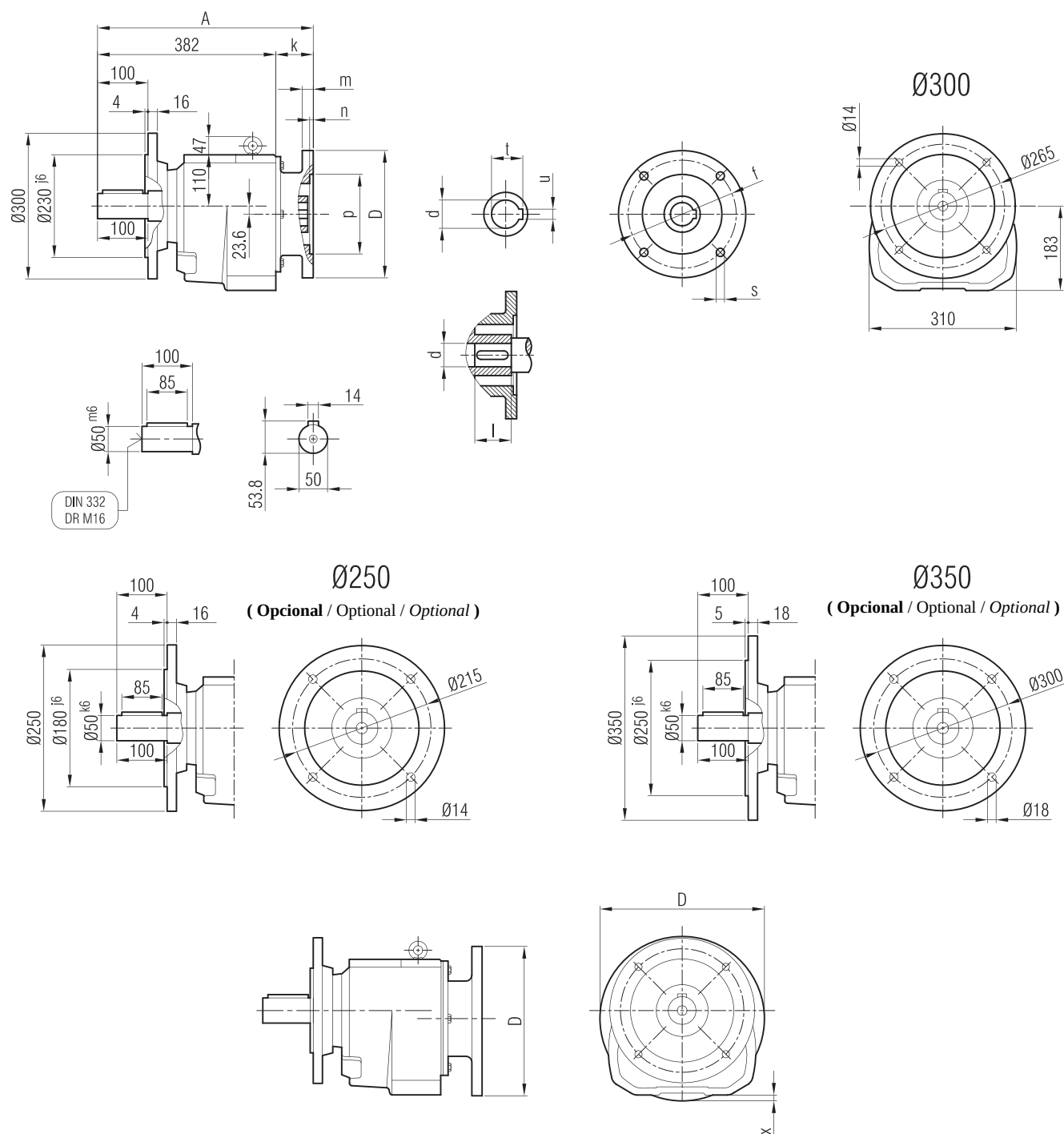


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
80/B5	449	130	165	200	M10	67	12	5	19	40	21.8	6	-				
90/B5	449	130	165	200	M10	67	12	5	24	50	27.3	8	-				
100/B5	456	180	215	250	M12	74	14	5	28	60	31.3	8	-				
112/B5	456	180	215	250	M12	74	14	5	28	60	31.3	8	-				
132/B5	477	230	265	300	M12	95	17	6	38	80	41.3	10	-				
160/B5	493	250	300	350	M14	111	18	6.5	42	110	45.3	12	19				
180/B5	493	250	300	350	M14	111	18	6.5	48	110	51.8	14	19				



IRFP 82

IRFP 83

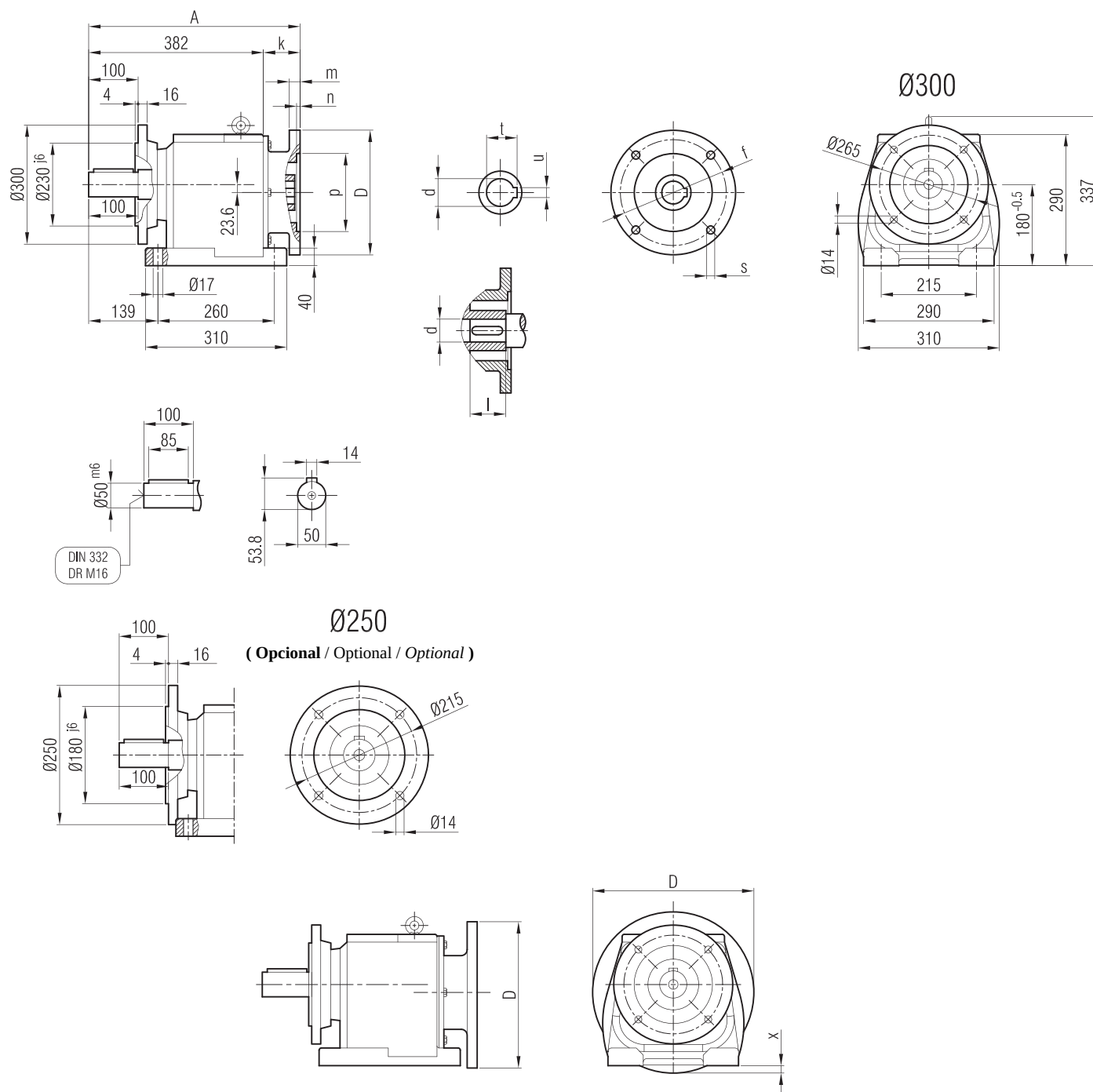


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
80/B5	449	130	165	200	M10	67	12	5	19	40	21.8	6	-				
90/B5	449	130	165	200	M10	67	12	5	24	50	27.3	8	-				
100/B5	456	180	215	250	M12	74	14	5	28	60	31.3	8	-				
112/B5	456	180	215	250	M12	74	14	5	28	60	31.3	8	-				
132/B5	477	230	265	300	M12	95	17	6	38	80	41.3	10	-				
160/B5	493	250	300	350	M14	111	18	6.5	42	110	45.3	12	16				
180/B5	493	250	300	350	M14	111	18	6.5	48	110	51.8	14	16				



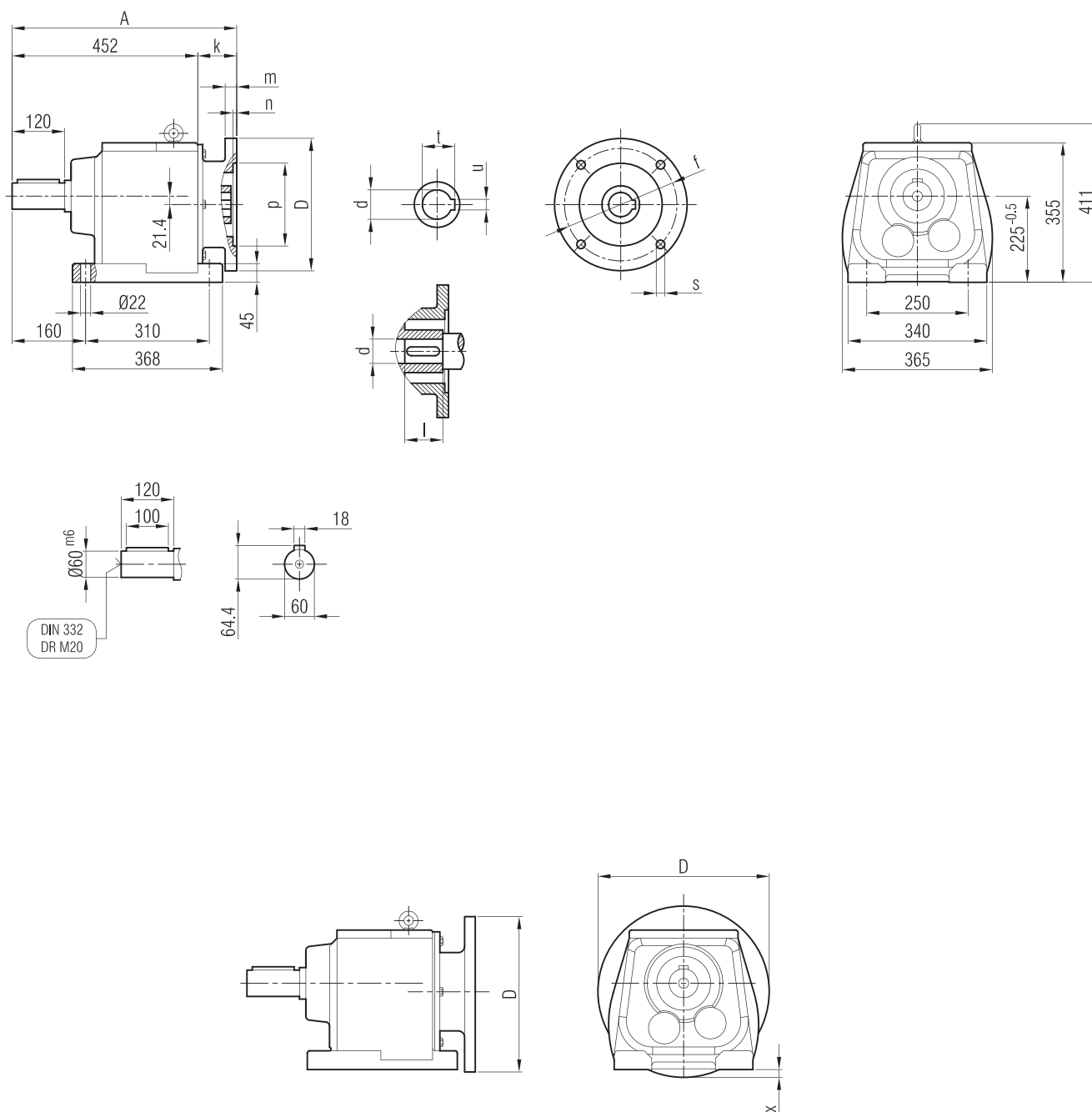
IRA FP 82

İRAFP 83



	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
80/B5	449	130	165	200	M10	67	12	5	19	40	21.8	6	-				
90/B5	449	130	165	200	M10	67	12	5	24	50	27.3	8	-				
100/B5	456	180	215	250	M12	74	14	5	28	60	31.3	8	-				
112/B5	456	180	215	250	M12	74	14	5	28	60	31.3	8	-				
132/B5	477	230	265	300	M12	95	17	6	38	80	41.3	10	-				
160/B5	493	250	300	350	M14	111	18	6.5	42	110	45.3	12	19				
180/B5	493	250	300	350	M14	111	18	6.5	48	110	51.8	14	19				

İRAP 93

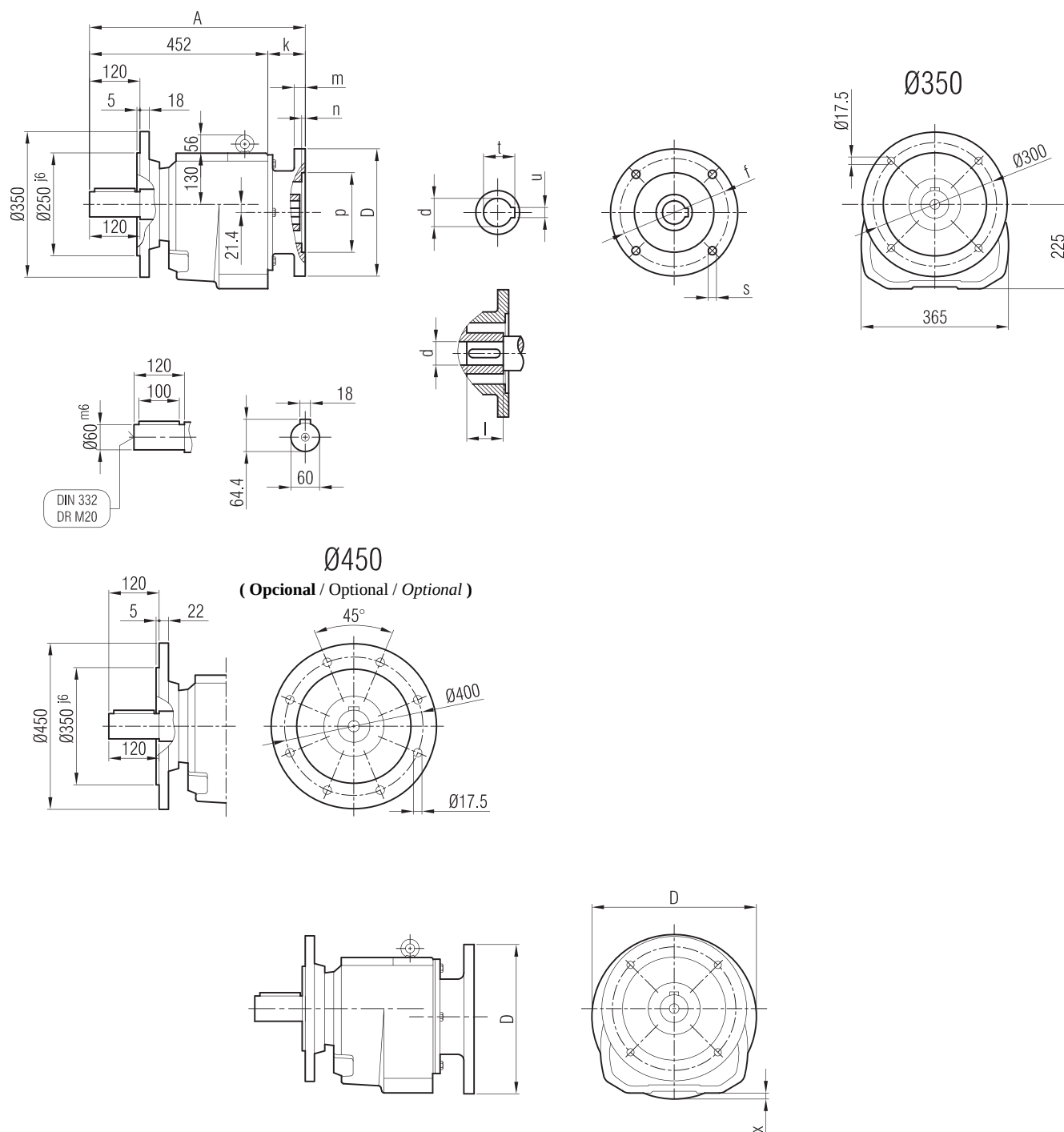


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
80/B5	501	130	165	200	M10	49	12	5	19	40	21.8	6	-				
90/B5	501	130	165	200	M10	49	12	5	24	50	27.3	8	-				
100/B5	510	180	215	250	M12	58	14	5	28	60	31.3	8	-				
112/B5	510	180	215	250	M12	58	14	5	28	60	31.3	8	-				
132/B5	547	230	265	300	M12	95	17	6	38	80	41.3	10	-				
160/B5	563	250	300	350	M14	111	18	6.5	42	110	45.3	12	-				
180/B5	563	250	300	350	M14	111	18	6.5	48	110	51.8	14	-				
200/B5	611	300	350	400	M16	159	20	6.5	55	110	59.3	16	-				



IRFP 92

IRFP 93

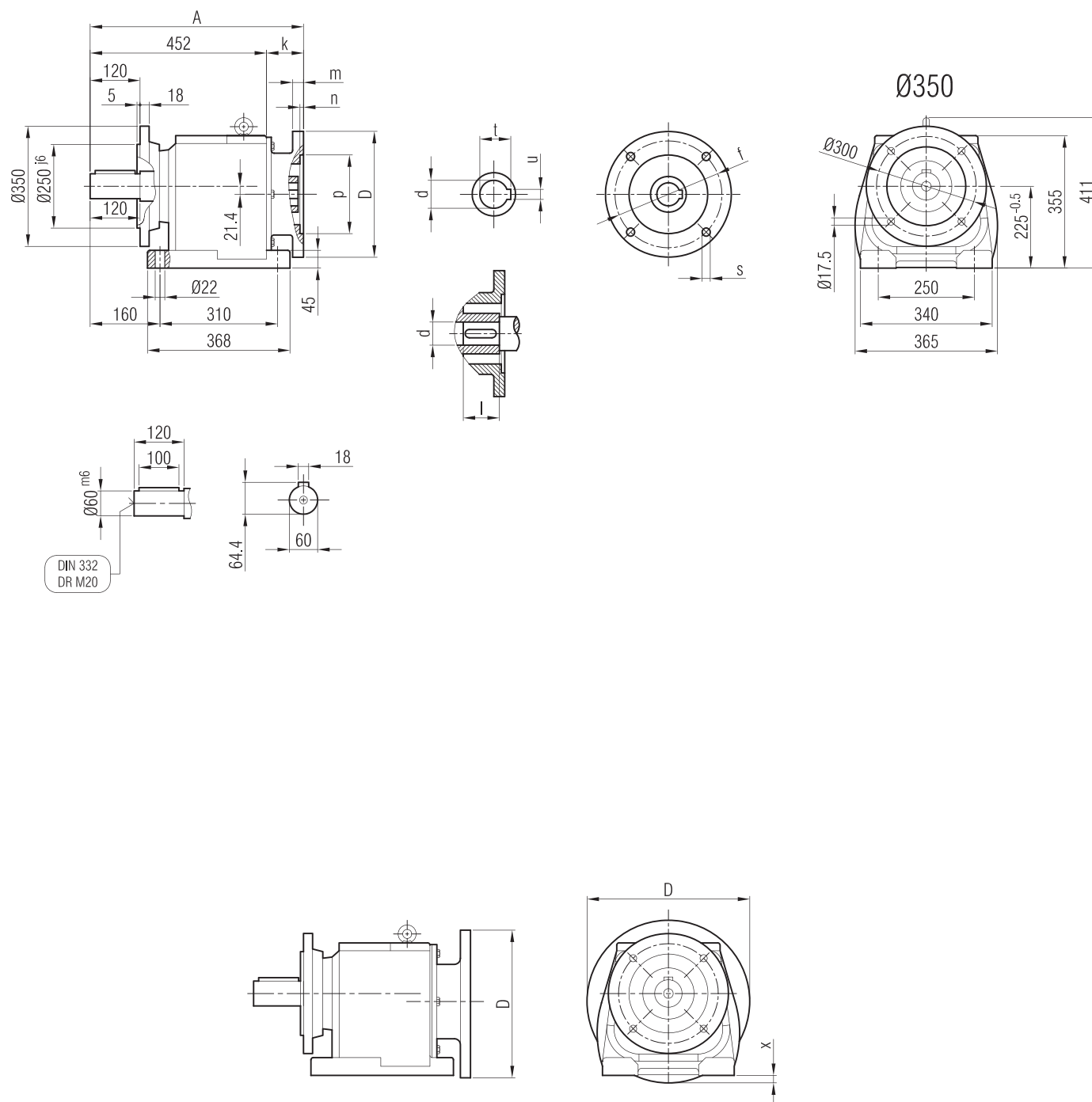


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
80/B5	501	130	165	200	M10	49	12	5	19	40	21.8	6	-				
90/B5	501	130	165	200	M10	49	12	5	24	50	27.3	8	-				
100/B5	510	180	215	250	M12	58	14	5	28	60	31.3	8	-				
112/B5	510	180	215	250	M12	58	14	5	28	60	31.3	8	-				
132/B5	547	230	265	300	M12	95	17	6	38	80	41.3	10	-				
160/B5	563	250	300	350	M14	111	18	6.5	42	110	45.3	12	-				
180/B5	563	250	300	350	M14	111	18	6.5	48	110	51.8	14	-				
200/B5	611	300	350	400	M16	159	20	6.5	55	110	59.3	16	-				



İRAFP 92

İRAFP 93

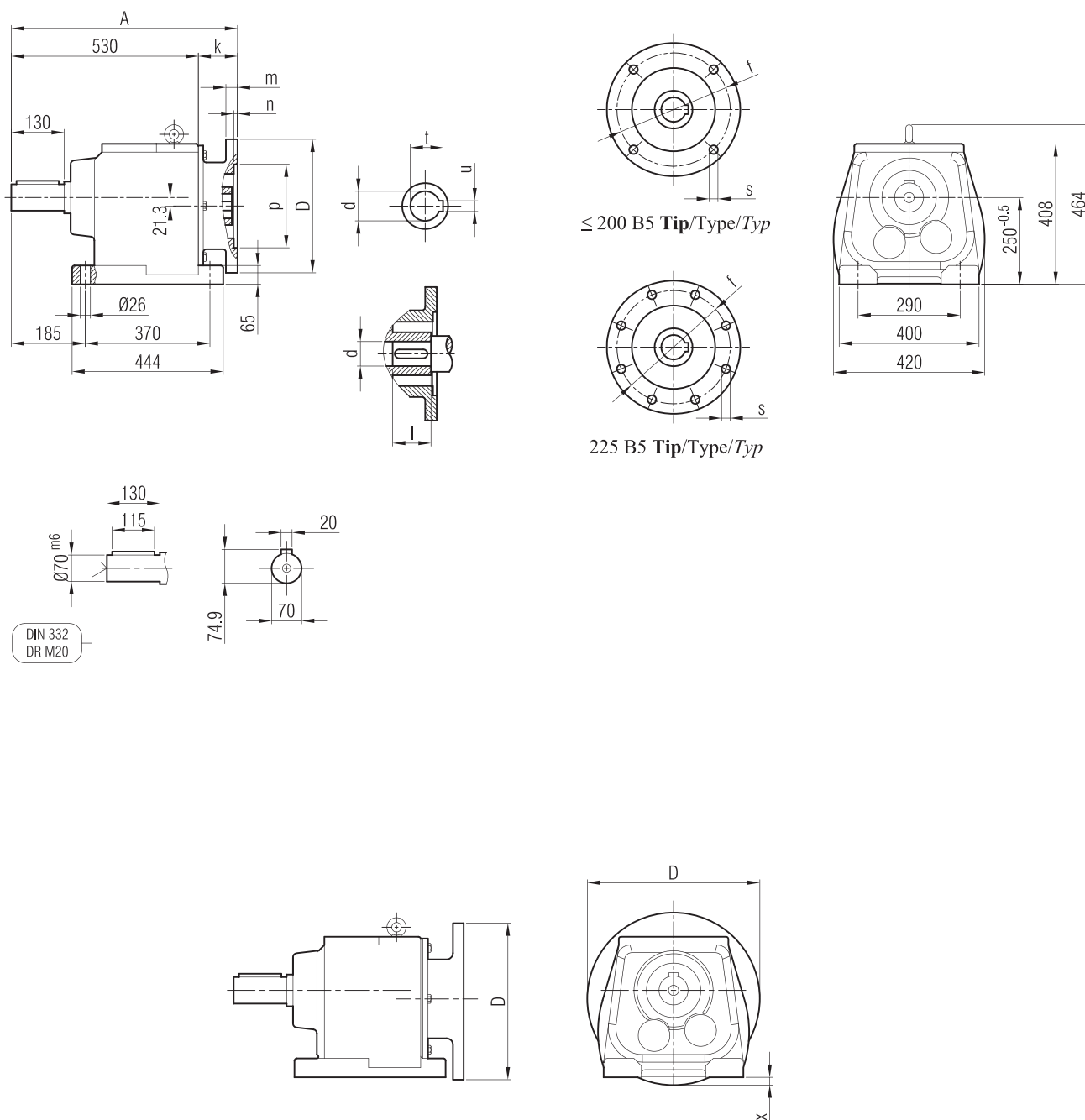


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
80/B5	501	130	165	200	M10	49	12	5	19	40	21.8	6	-				
90/B5	501	130	165	200	M10	49	12	5	24	50	27.3	8	-				
100/B5	510	180	215	250	M12	58	14	5	28	60	31.3	8	-				
112/B5	510	180	215	250	M12	58	14	5	28	60	31.3	8	-				
132/B5	547	230	265	300	M12	95	17	6	38	80	41.3	10	-				
160/B5	563	250	300	350	M14	111	18	6.5	42	110	45.3	12	-				
180/B5	563	250	300	350	M14	111	18	6.5	48	110	51.8	14	-				
200/B5	611	300	350	400	M16	159	20	6.5	55	110	59.3	16	-				



İRAP 102

İRAP 103

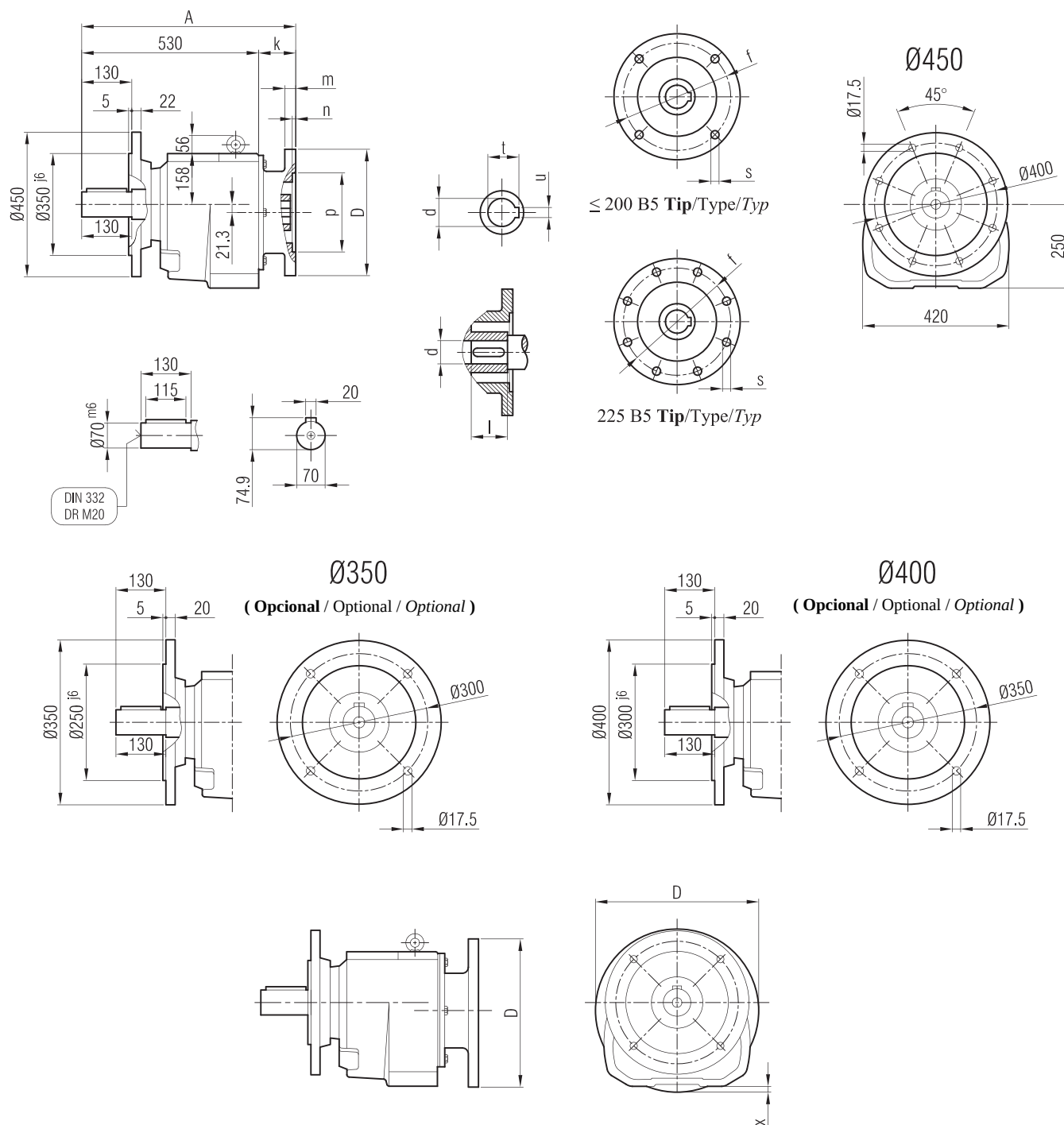


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
100/B5	587	180	215	250	M12	57	15	5	28	60	31.3	8	-				
112/B5	587	180	215	250	M12	57	15	5	28	60	31.3	8	-				
132/B5	614	230	265	300	M14	84	17	6	38	80	41.3	10	-				
160/B5	621	250	300	350	M14	91	18	6.5	42	110	45.3	12	-				
180/B5	621	250	300	350	M14	91	18	6.5	48	110	51.8	14	-				
200/B5	689	300	350	400	M16	159	20	6.5	55	110	59.3	16	-				
225/B5	696	350	400	450	M16	166	24	6.5	60	140	64.4	18	-				



IRFP 102

IRFP 103

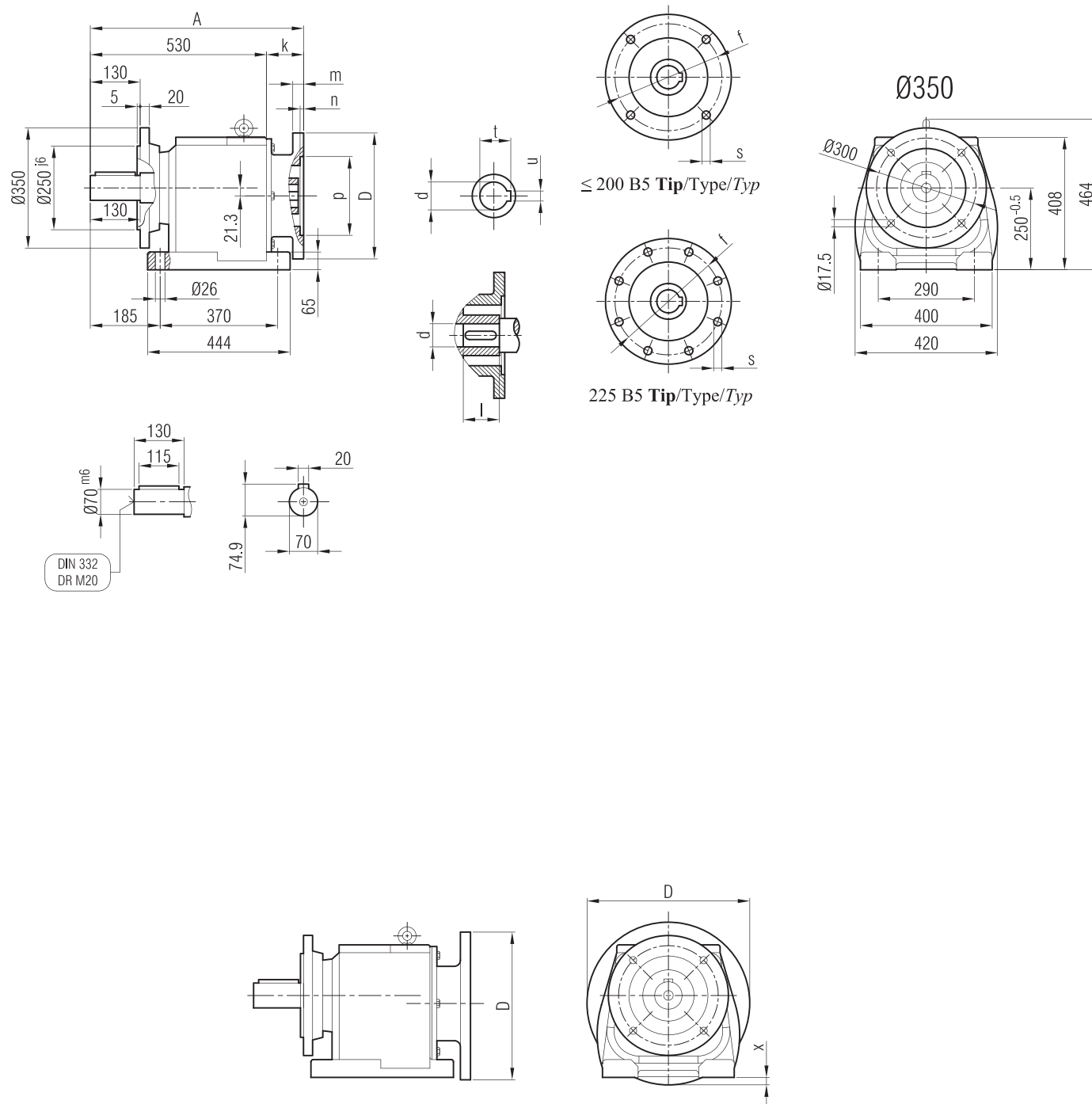


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
100/B5	587	180	215	250	M12	57	15	5	28	60	31.3	8	-				
112/B5	587	180	215	250	M12	57	15	5	28	60	31.3	8	-				
132/B5	614	230	265	300	M14	84	17	6	38	80	41.3	10	-				
160/B5	621	250	300	350	M14	91	18	6.5	42	110	45.3	12	-				
180/B5	621	250	300	350	M14	91	18	6.5	48	110	51.8	14	-				
200/B5	689	300	350	400	M16	159	20	6.5	55	110	59.3	16	-				
225/B5	696	350	400	450	M16	166	24	6.5	60	140	64.4	18	-				



İRAFP 102

IRAFP 103

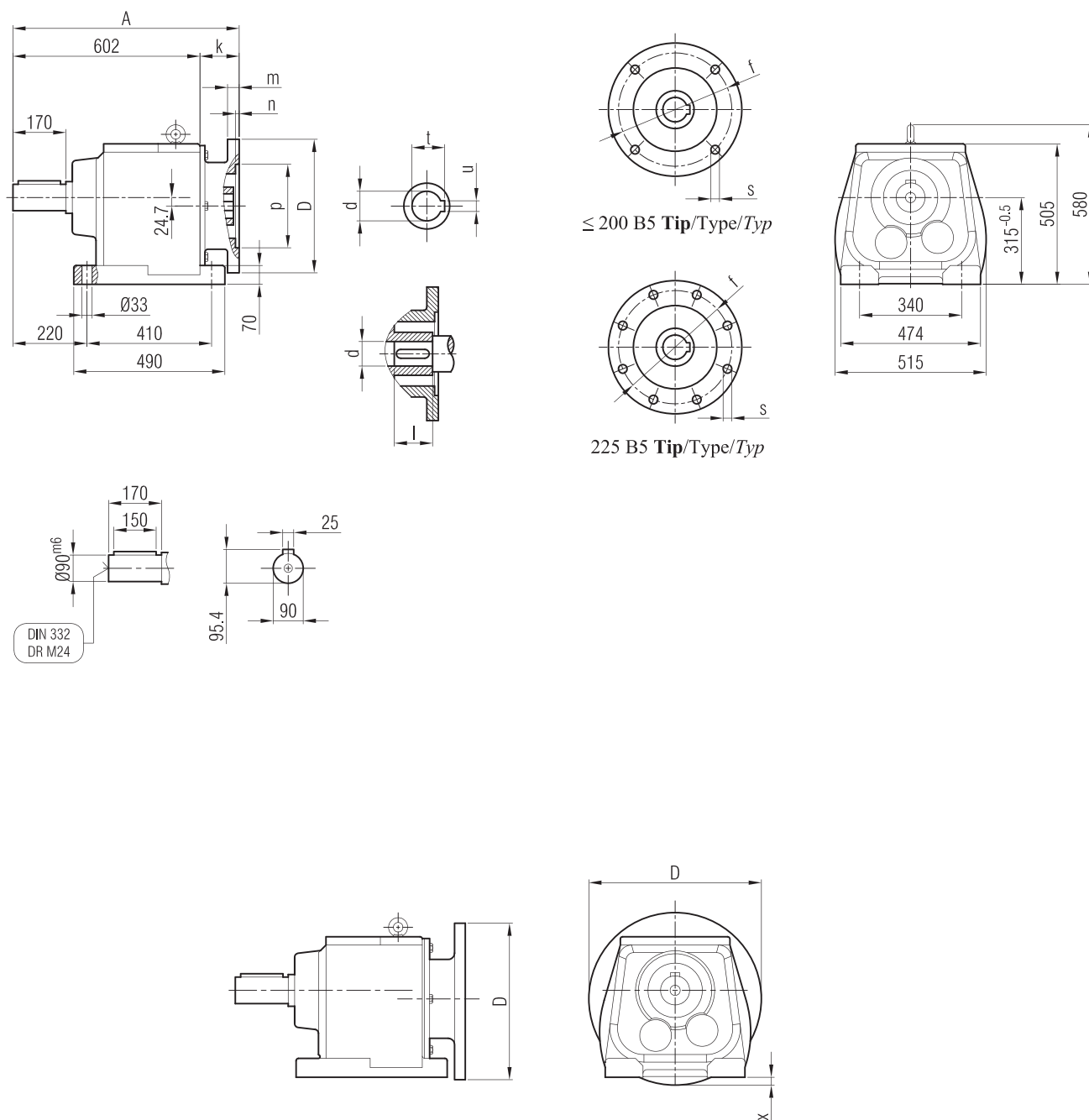


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
100/B5	587	180	215	250	M12	57	15	5	28	60	31.3	8	-				
112/B5	587	180	215	250	M12	57	15	5	28	60	31.3	8	-				
132/B5	614	230	265	300	M14	84	17	6	38	80	41.3	10	-				
160/B5	621	250	300	350	M14	91	18	6.5	42	110	45.3	12	-				
180/B5	621	250	300	350	M14	91	18	6.5	48	110	51.8	14	-				
200/B5	689	300	350	400	M16	159	20	6.5	55	110	59.3	16	-				
225/B5	696	350	400	450	M16	166	24	6.5	60	140	64.4	18	-				



İRAP 122

İRAP 123

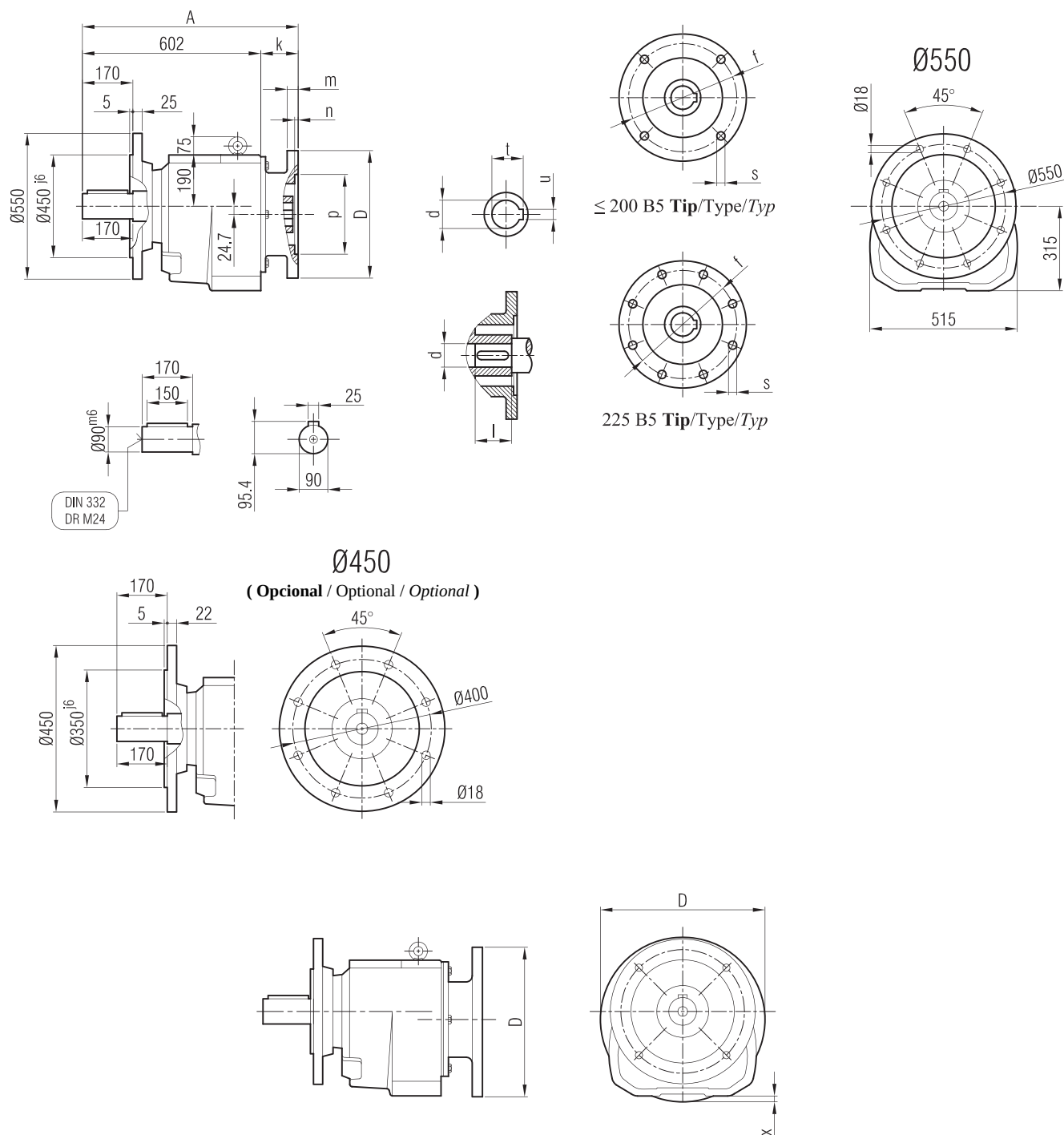


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
132/B5	663	230	265	300	M14	61	17	6	38	80	41.3	10	-				
160/B5	693	250	300	350	M14	91	18	6.5	42	110	45.3	12	-				
180/B5	693	250	300	350	M14	91	18	6.5	48	110	51.8	14	-				
200/B5	761	300	350	400	M16	159	20	6.5	55	110	59.3	16	-				
225/B5	770	350	400	450	M16	168	22	6.5	60	140	64.4	18	-				
250/B5	770	450	500	550	M16	168	22	6.5	65	140	69.4	18	-				



İRFP 122

İRFP 123

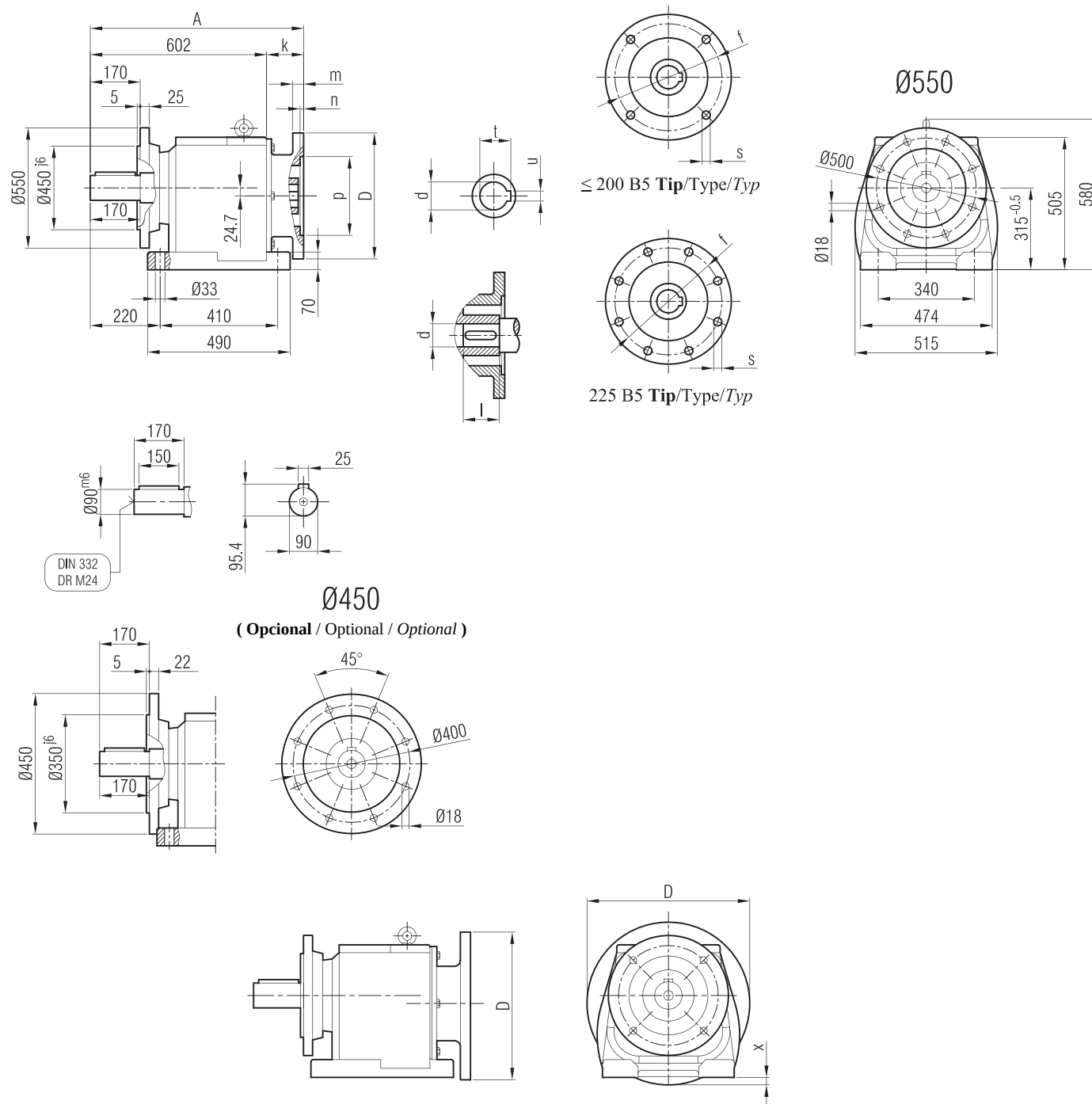


	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
132/B5	663	230	265	300	M14	61	17	6	38	80	41.3	10	-				
160/B5	693	250	300	350	M14	91	18	6.5	42	110	45.3	12	-				
180/B5	693	250	300	350	M14	91	18	6.5	48	110	51.8	14	-				
200/B5	761	300	350	400	M16	159	20	6.5	55	110	59.3	16	-				
225/B5	770	350	400	450	M16	168	22	6.5	60	140	64.4	18	-				
250/B5	770	450	500	550	M16	168	22	6.5	65	140	69.4	18	-				

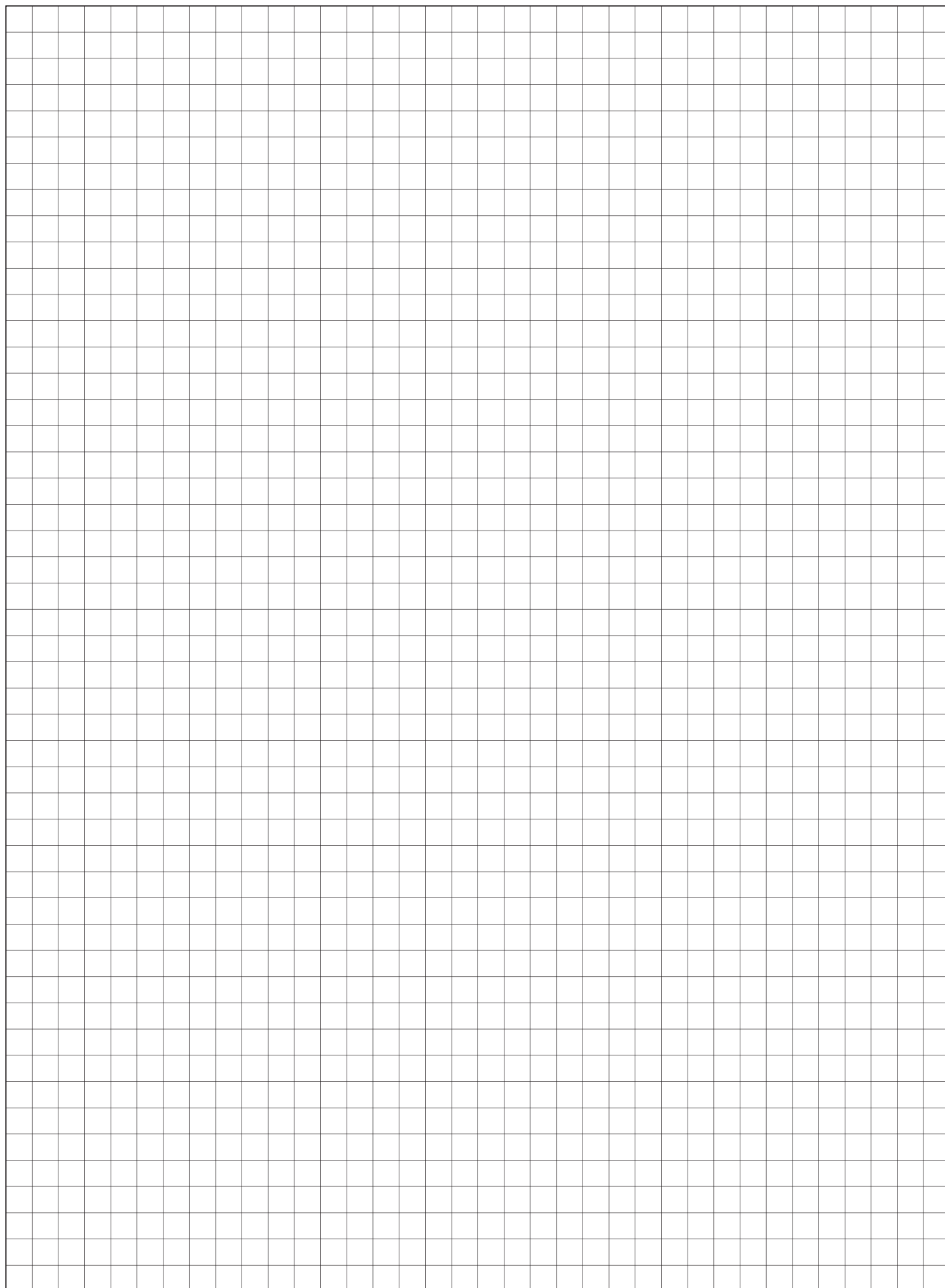


İRAFP 122

İRAFP 123



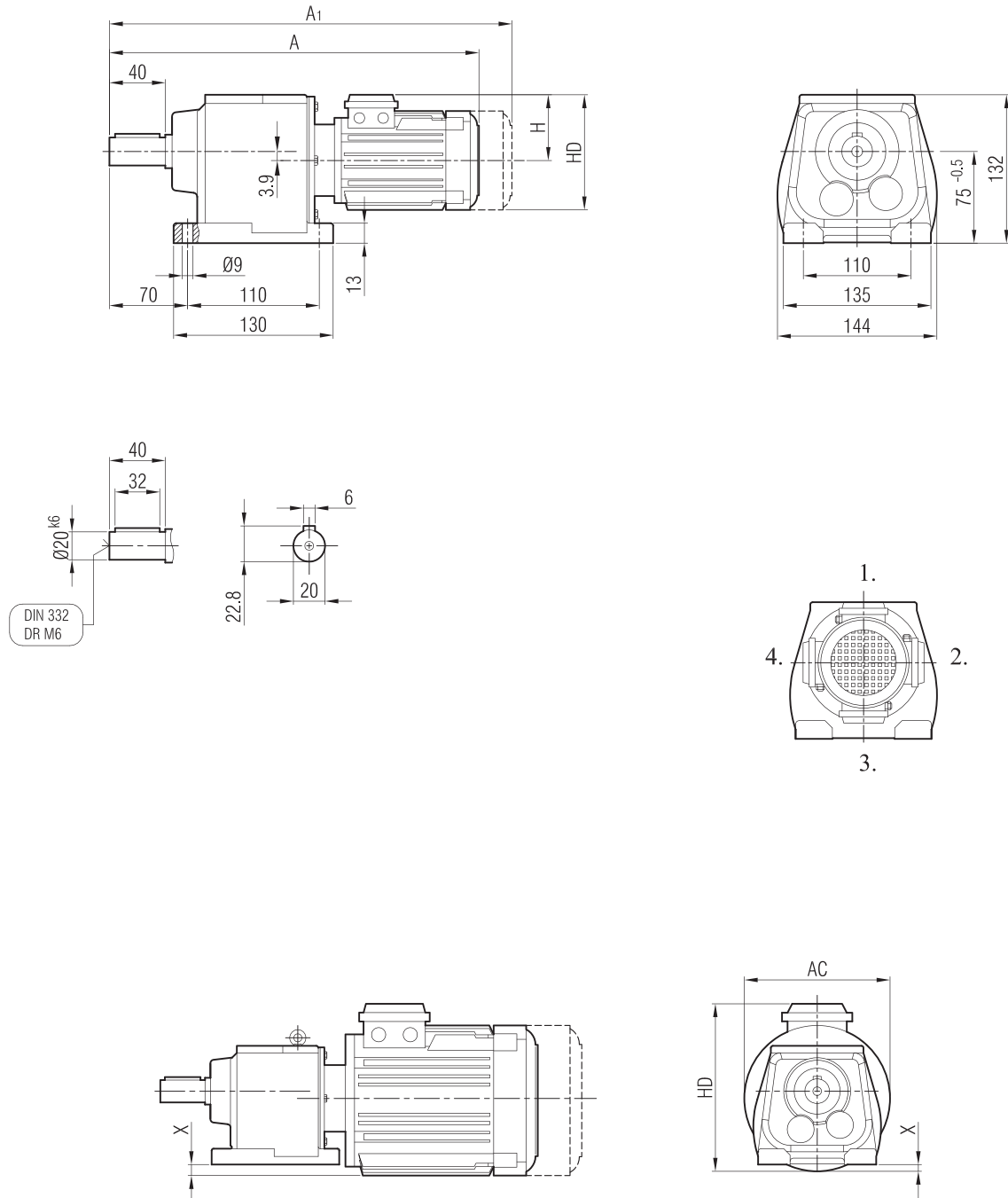
	A	Øp	Øf	ØD	s	k	m	n	Ød	l	t	u	x				
132/B5	663	230	265	300	M14	61	17	6	38	80	41.3	10	-				
160/B5	693	250	300	350	M14	91	18	6.5	42	110	45.3	12	-				
180/B5	693	250	300	350	M14	91	18	6.5	48	110	51.8	14	-				
200/B5	761	300	350	400	M16	159	20	6.5	55	110	59.3	16	-				
225/B5	770	350	400	450	M16	168	22	6.5	60	140	64.4	18	-				
250/B5	770	450	500	550	M16	168	22	6.5	65	140	69.4	18	-				





İRAM 42

İRAM 43



	56	63	71	80	90 S	90 L										
A		356	384	414	433	458										
A ₁		414	457	497	518	543										
H		99	111	118	132	132										
HD		162	182	198	222	222										
AC		123	132	158	193	193										
X		-	-	7.9	25.4	25.4										

La cota "A1" se refiere a motores con freno

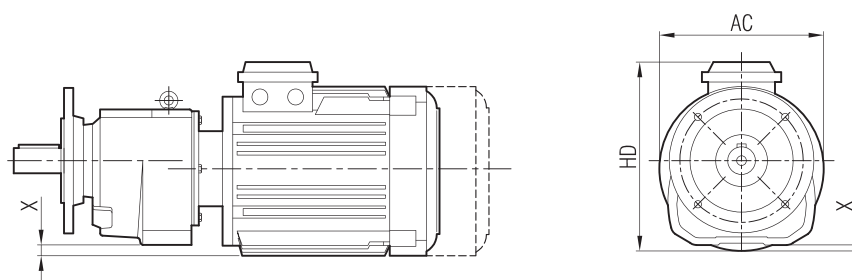
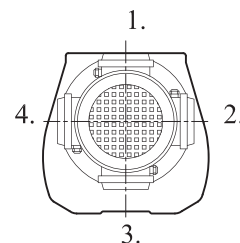
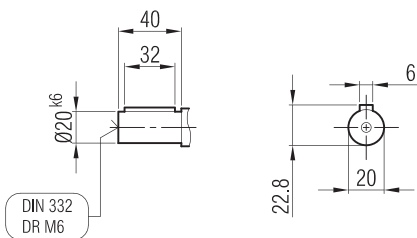
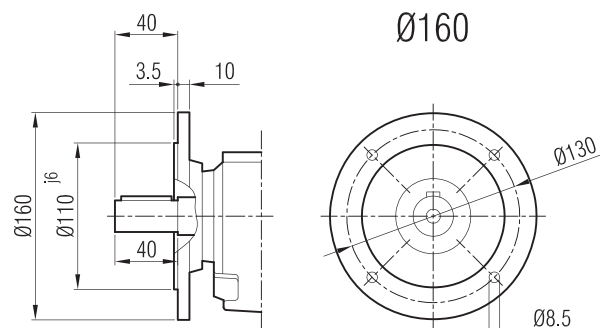
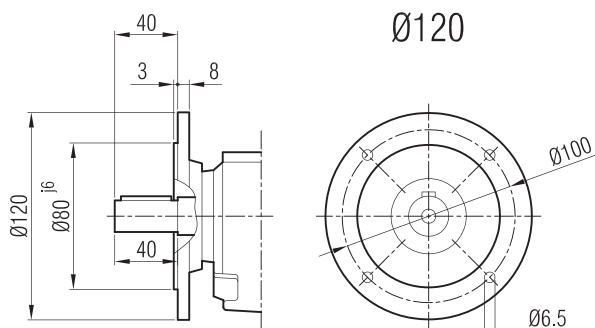
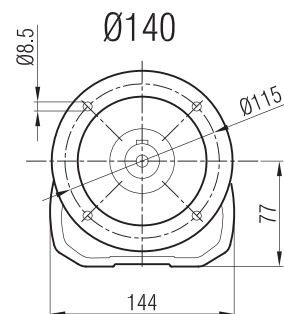
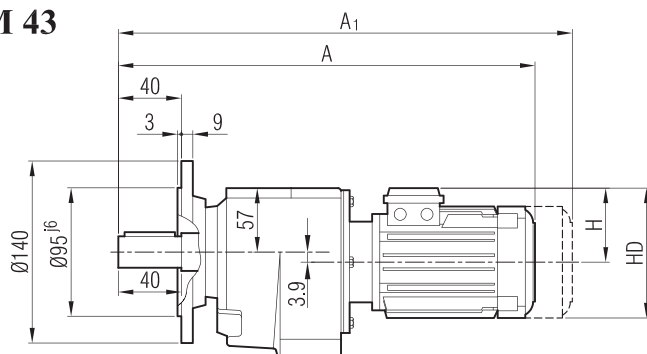
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



IRFM 42

IRFM 43



	56	63	71	80	90 S	90 L									
A		356	384	414	433	458									
A1		414	457	497	518	543									
H		99	111	118	132	132									
HD		162	182	198	222	222									
AC		123	132	158	193	193									
X		-	-	5.9	23.4	23.4									

La cota "A1" se refiere a motores con freno

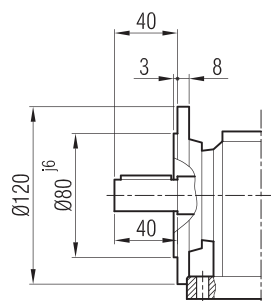
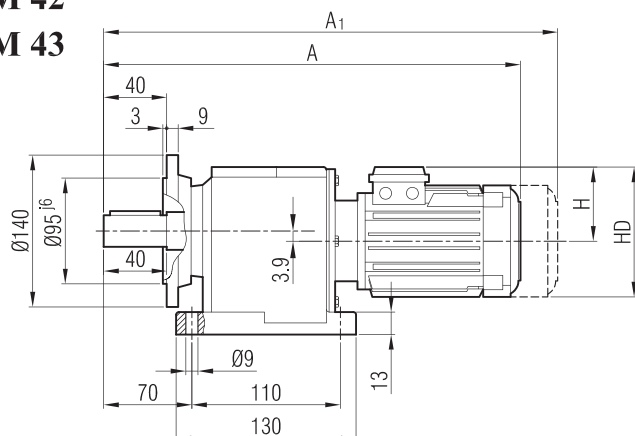
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse

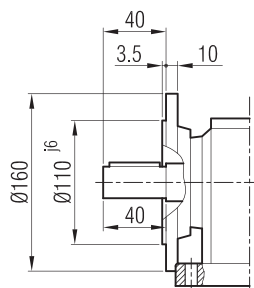


İRAFM 42

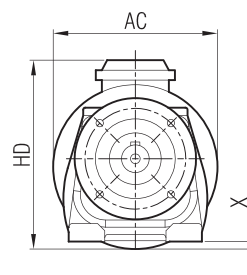
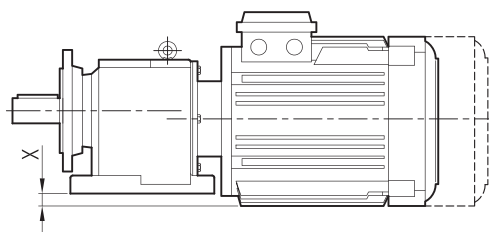
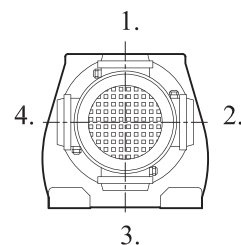
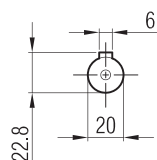
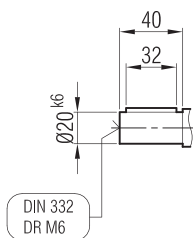
İRAFM 43



Ø120



Ø160



	56	63	71	80	90 S	90 L											
A		356	384	414	433	458											
A ₁		414	457	497	518	543											
H		99	111	118	132	132											
HD		162	182	198	222	222											
AC		123	132	158	193	193											
X		-	-	7.9	25.4	25.4											

La cota "A1" se refiere a motores con freno

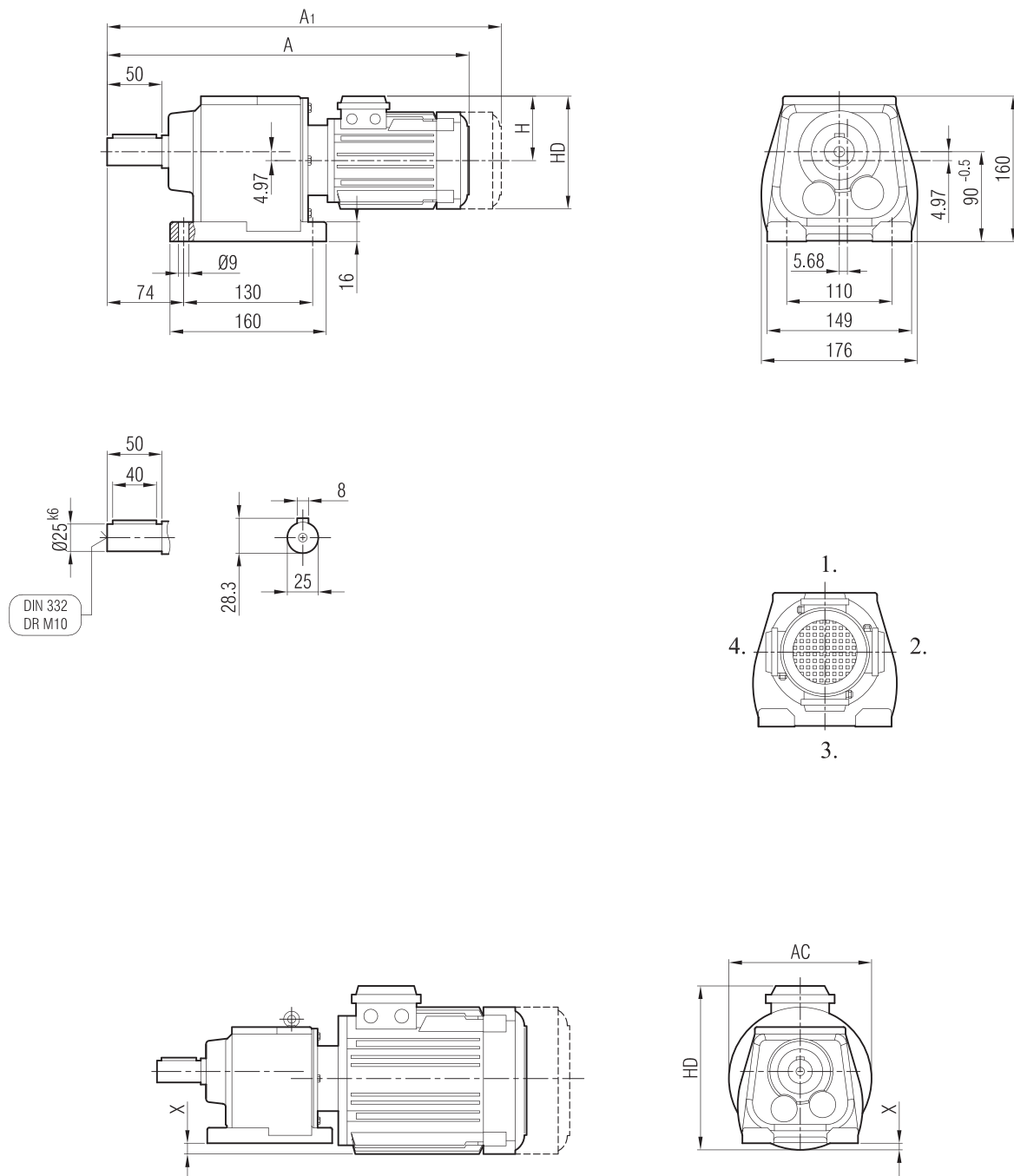
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRAM 52

İRAM 53



	56	63	71	80	90 S	90 L	100										
A		431	417	447	466	491	520										
A ₁		489	490	530	551	576	622										
H		99	111	118	132	132	141										
HD		162	182	198	222	222	241										
AC		123	132	158	193	193	217										
X		-	-	-	5	5	15										

La cota "A1" se refiere a motores con freno

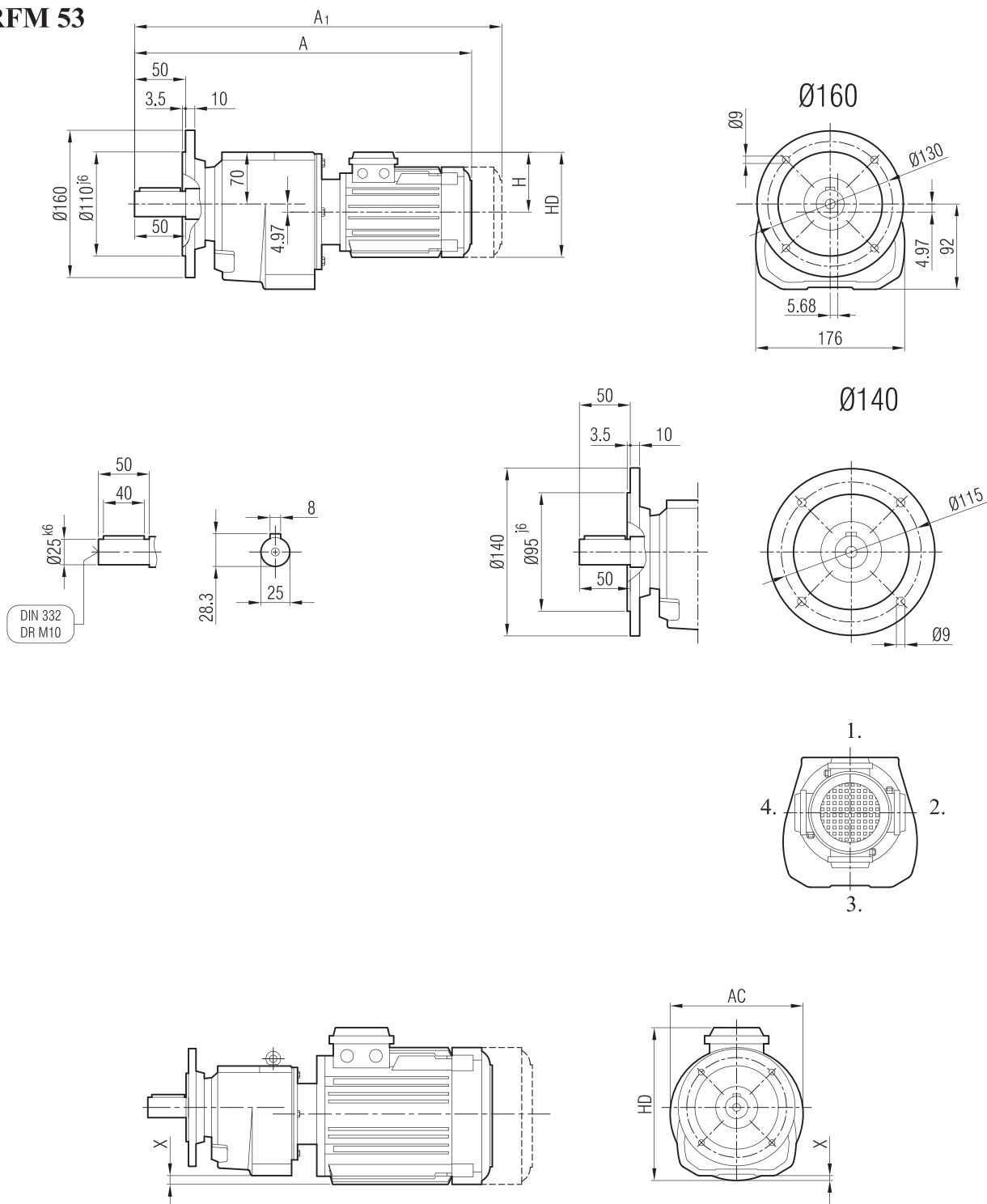
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRFM 52

İRFM 53



	56	63	71	80	90 S	90 L	100									
A		431	417	447	466	491	520									
A ₁		489	490	530	551	576	622									
H		99	111	118	132	132	141									
HD		162	182	198	222	222	241									
AC		123	132	158	193	193	217									
X		-	-	-	3	3	13									

La cota "A1" se refiere a motores con freno

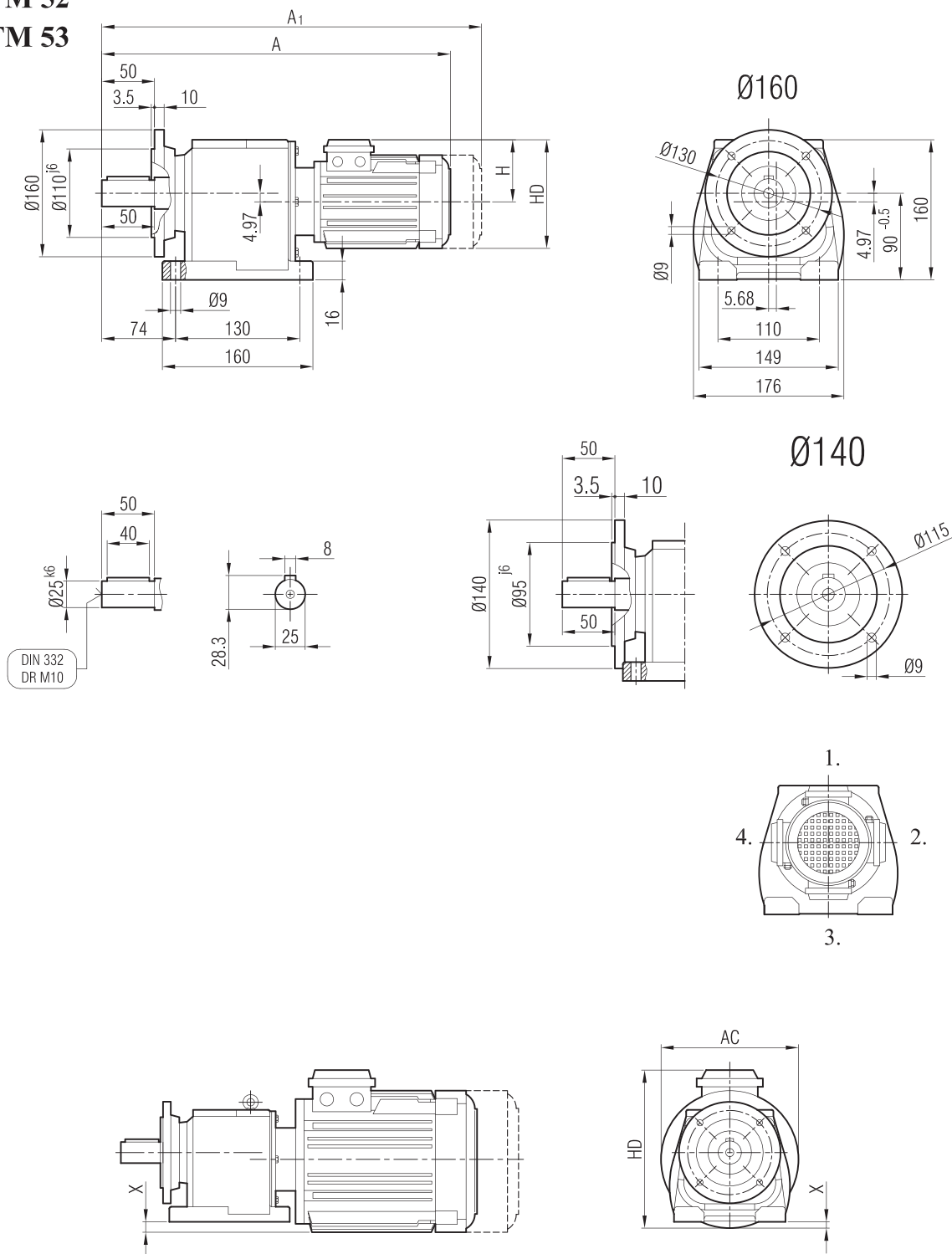
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRAFM 52

İRAFM 53



	56	63	71	80	90 S	90 L	100										
A		431	417	447	466	491	520										
A ₁		489	490	530	551	576	622										
H		99	111	118	132	132	141										
HD		162	182	198	222	222	241										
AC		123	132	158	193	193	217										
X		-	-	-	5	5	15										

La cota "A1" se refiere a motores con freno

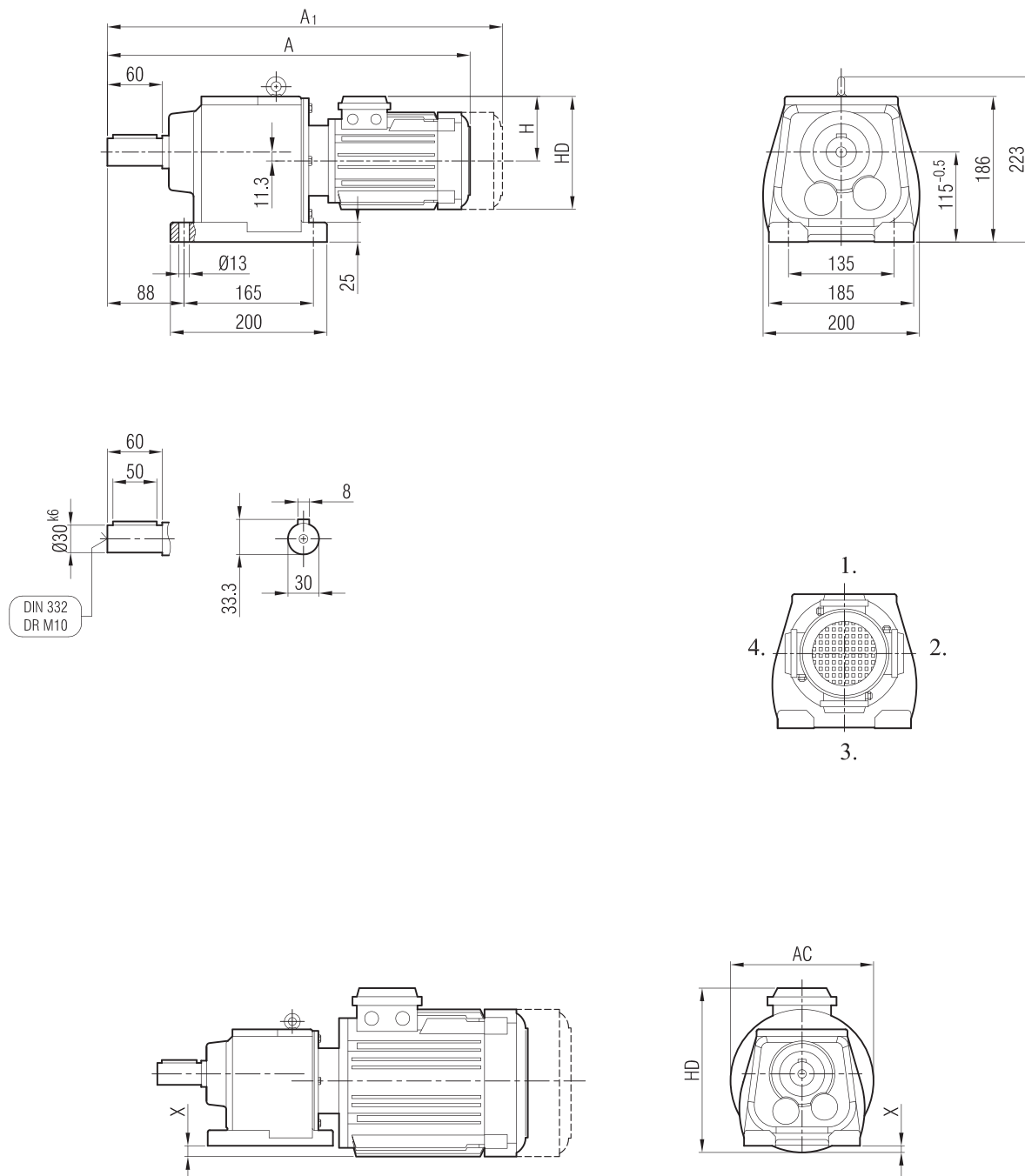
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRAM 621

İRAM 631



	56	63	71	80	90 S	90 L	100	112	132 S							
A		473	452	482	507	532	574	595	695							
A1		535	525	565	592	617	676	707	837							
H		99	111	118	132	132	141	149	182							
HD		162	182	198	222	222	241	261	314							
AC		123	132	158	193	193	217	232	279							
X		-	-	-	-	-	-	8.5	28.3							

La cota "A1" se refiere a motores con freno

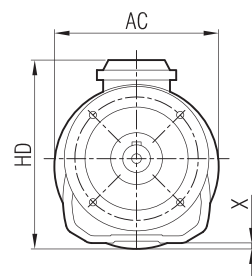
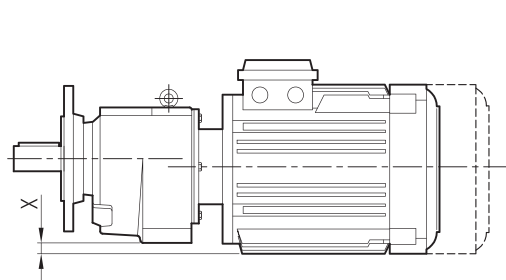
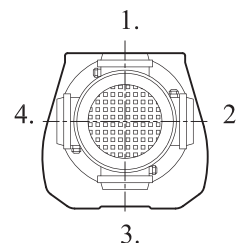
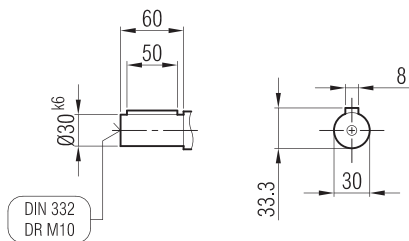
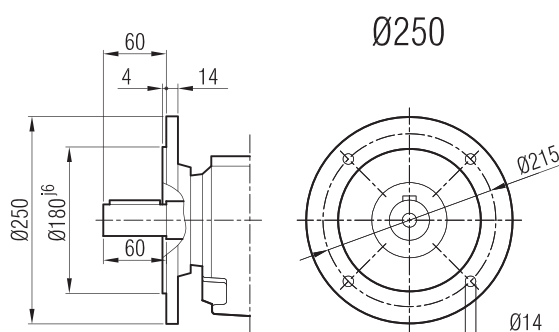
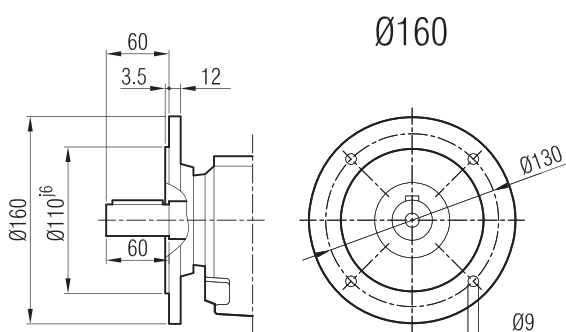
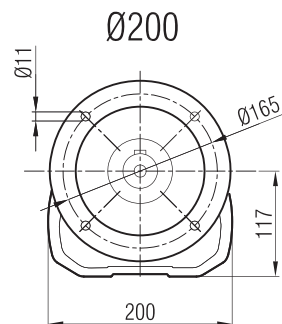
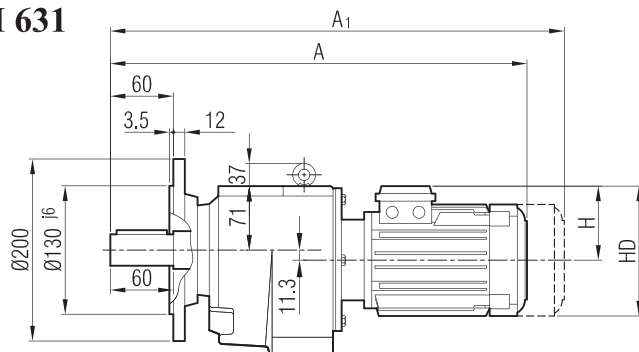
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRFM 621

İRFM 631



	56	63	71	80	90 S	90 L	100	112	132 S							
A		473	452	482	507	532	574	595	695							
A ₁		535	525	565	592	617	676	707	837							
H		99	111	118	132	132	141	149	182							
HD		162	182	198	222	222	241	261	314							
AC		123	132	158	193	193	217	232	279							
X		-	-	-	-	-	-	6.5	28.3							

La cota "A1" se refiere a motores con freno

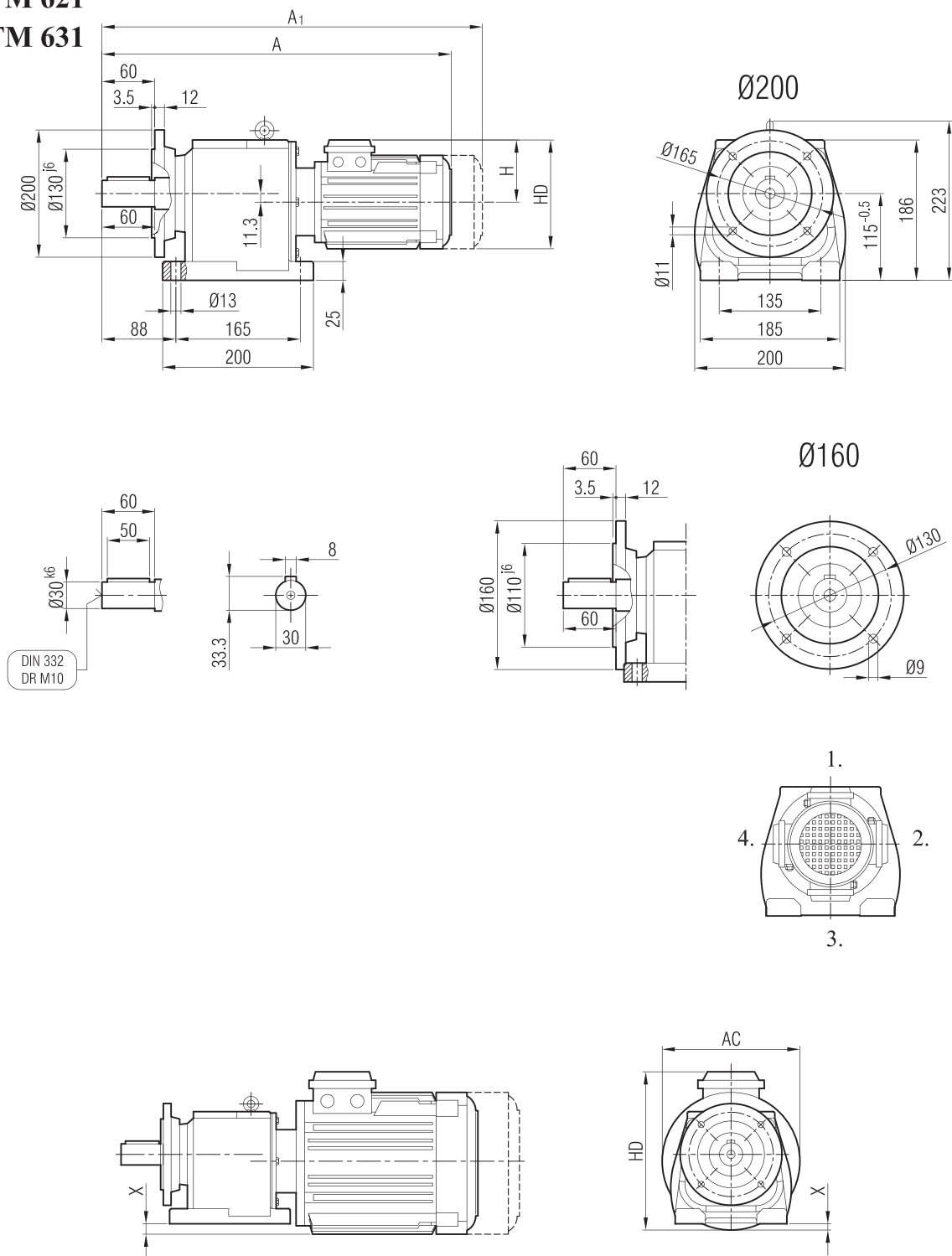
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRAFM 621

İRAFM 631



	56	63	71	80	90 S	90 L	100	112	132 S								
A		473	452	482	507	532	574	595	695								
A ₁		535	525	565	592	617	676	707	837								
H		99	111	118	132	132	141	149	182								
HD		162	182	198	222	222	241	261	314								
AC		123	132	158	193	193	217	232	279								
X		-	-	-	-	-	-	8.5	28.3								

La cota "A1" se refiere a motores con freno

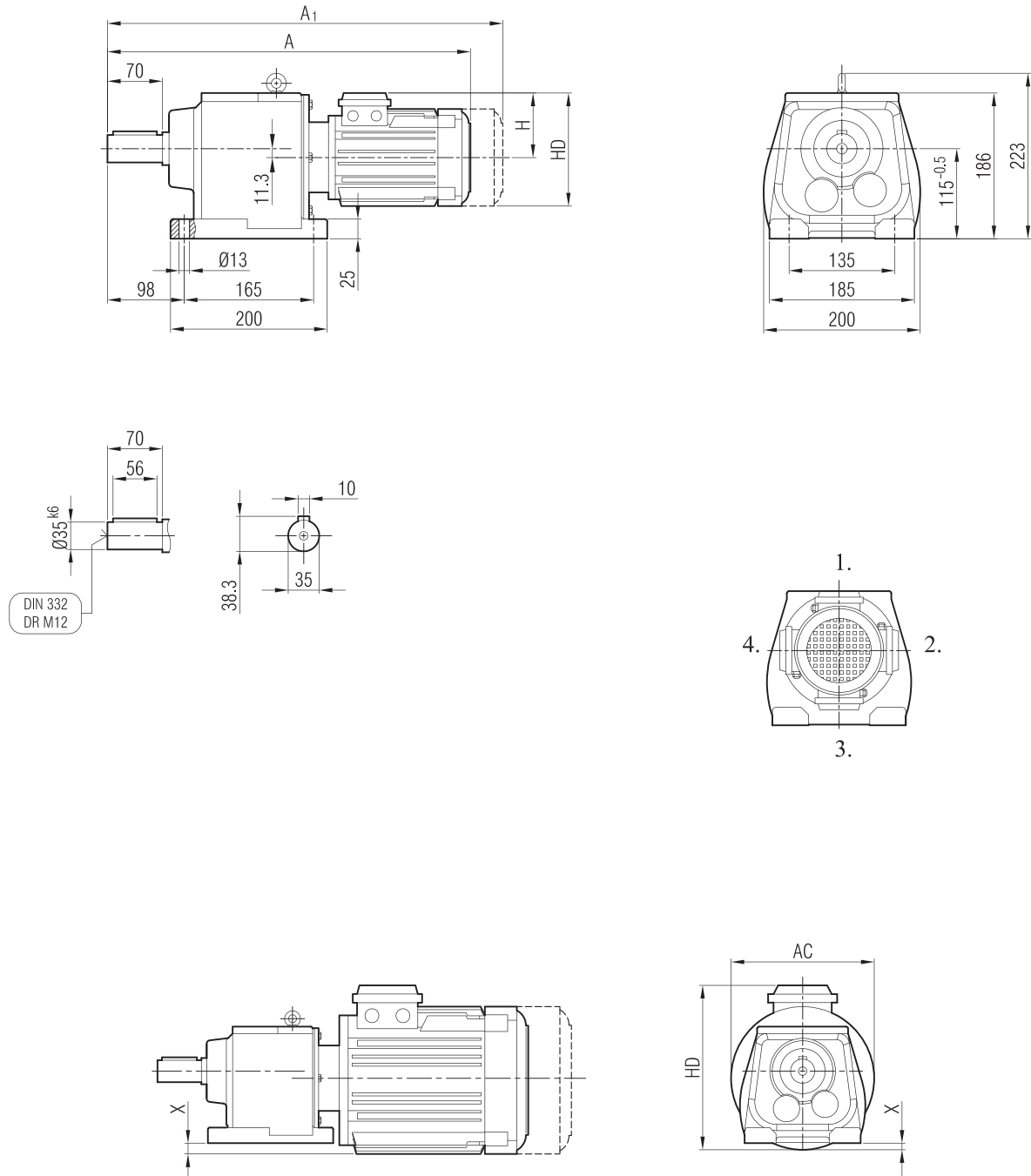
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRAM 62

İRAM 63



	56	63	71	80	90 S	90 L	100	112	132 S							
A		483	462	492	517	542	584	605	705							
A ₁		545	535	575	602	627	686	717	847							
H		99	111	118	132	132	141	149	182							
HD		162	182	198	222	222	241	261	314							
AC		123	132	158	193	193	217	232	279							
X		-	-	-	-	-	-	8.5	28.3							

La cota "A1" se refiere a motores con freno

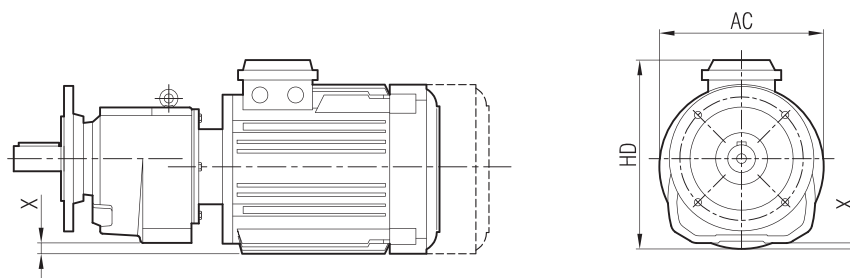
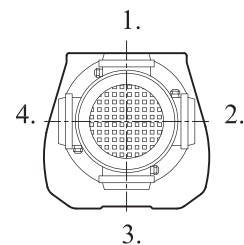
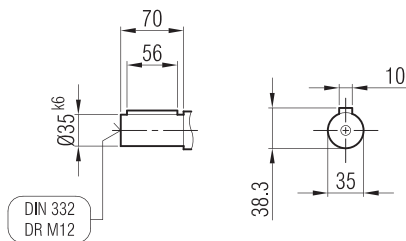
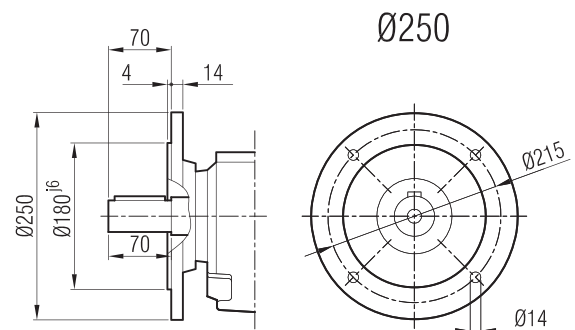
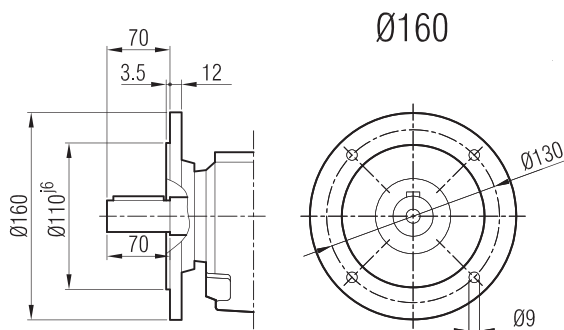
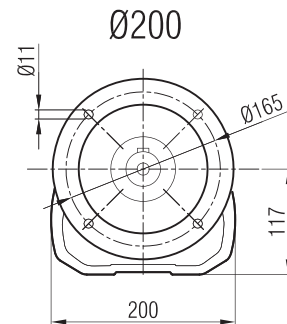
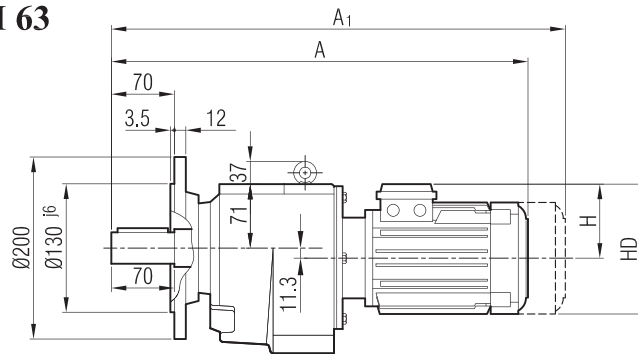
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRFM 62

İRFM 63



	56	63	71	80	90 S	90 L	100	112	132 S								
A		483	462	492	517	542	584	605	705								
A ₁		545	535	575	602	627	686	717	847								
H		99	111	118	132	132	141	149	182								
HD		162	182	198	222	222	241	261	314								
AC		123	132	158	193	193	217	232	279								
X		-	-	-	-	-	-	6.5	26.3								

La cota "A1" se refiere a motores con freno

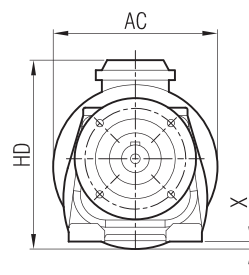
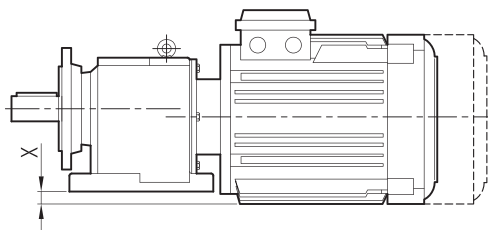
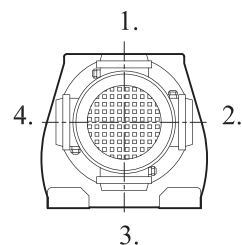
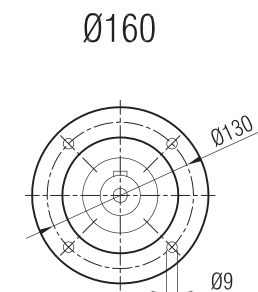
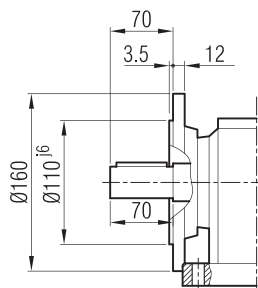
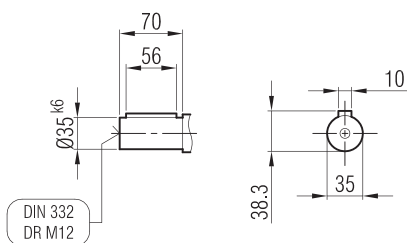
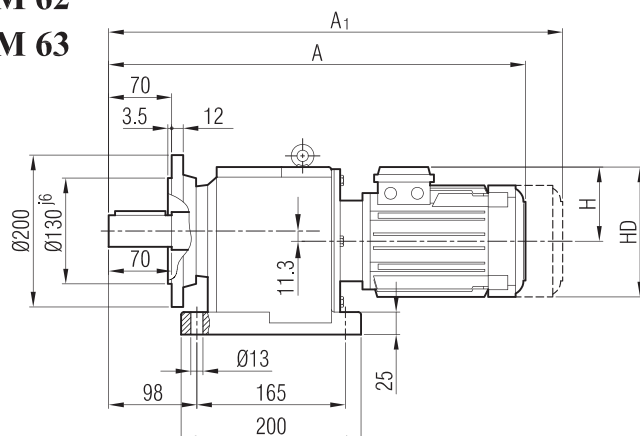
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRAFM 62

İRAFM 63



	56	63	71	80	90 S	90 L	100	112	132 S								
A		483	462	492	517	542	584	605	705								
A ₁		545	535	575	602	627	686	717	847								
H		99	111	118	132	132	141	149	182								
HD		162	182	198	222	222	241	261	314								
AC		123	132	158	193	193	217	232	279								
X		-	-	-	-	-	-	8.5	28.3								

La cota "A1" se refiere a motores con freno

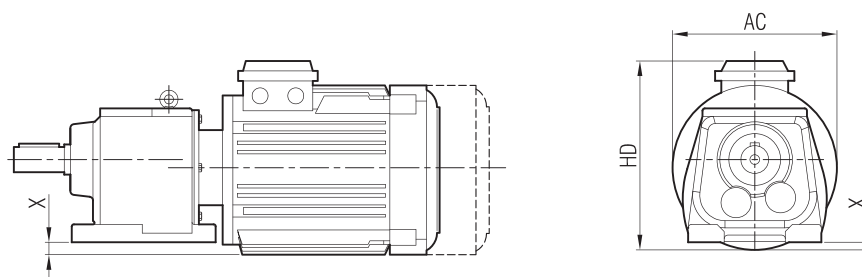
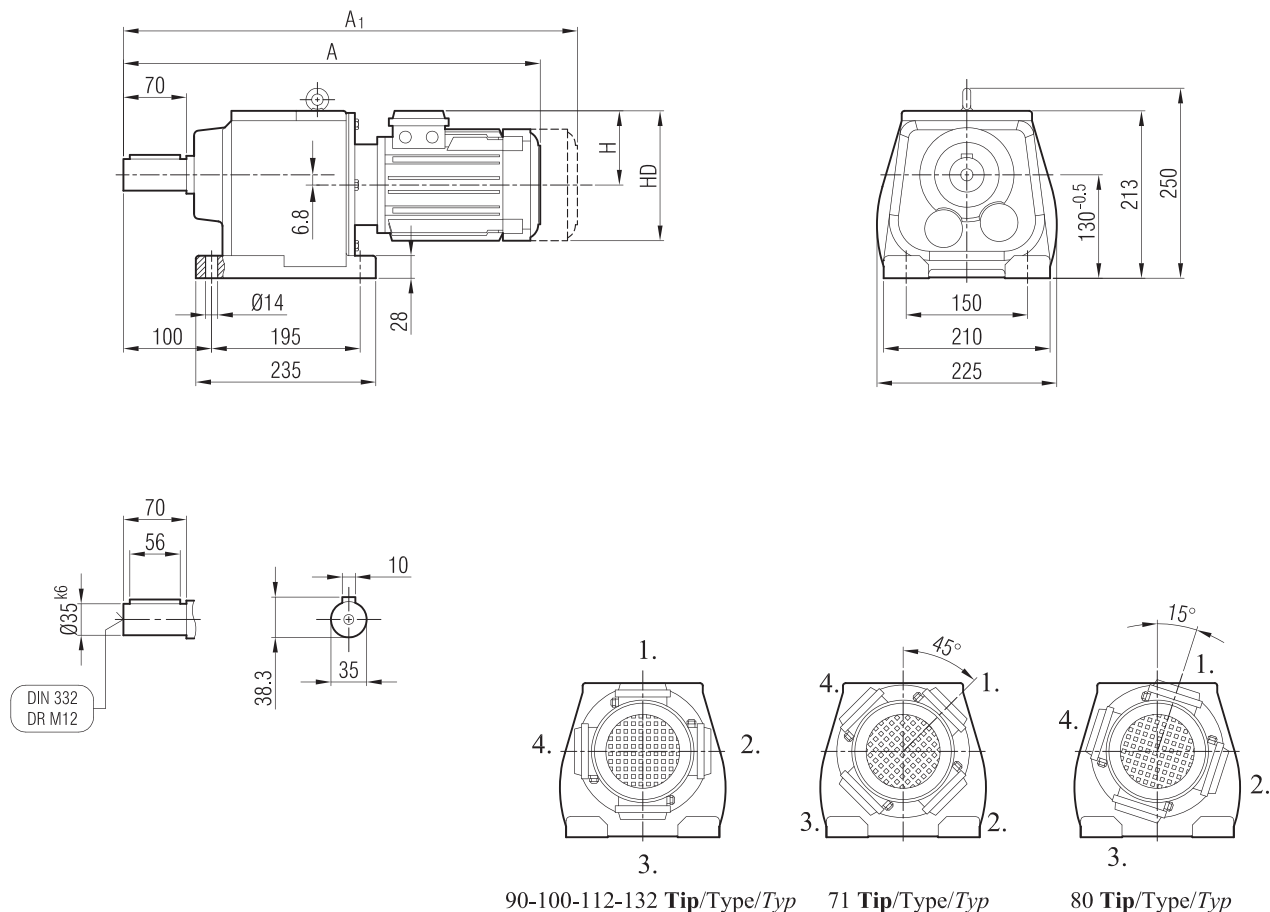
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRAM 721

İRAM 731



	56	63	71	80	90 S	90 L	100	112	132 S	132 M						
A			478	509	535	560	600	621	665	711						
A ₁			551	592	620	645	702	746	807	853						
H			111	118	132	132	141	149	182	182						
HD			182	198	222	222	241	261	314	314						
AC			138	158	193	193	217	232	279	279						
X			-	-	-	-	-	-	16.3	16.3						

La cota "A1" se refiere a motores con freno

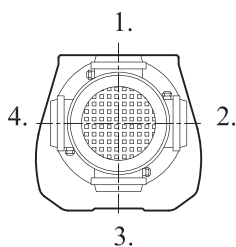
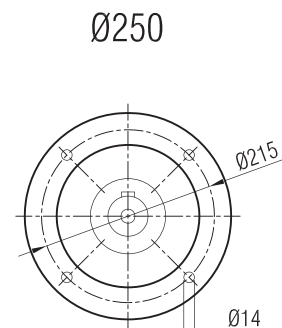
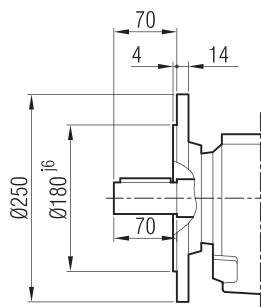
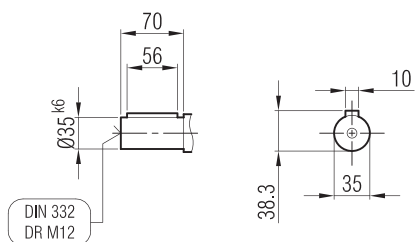
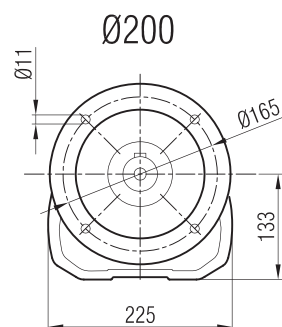
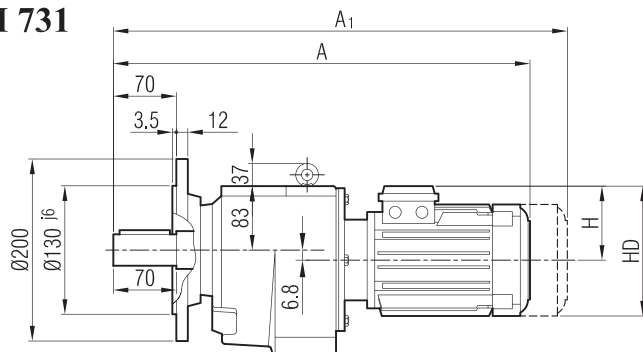
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse

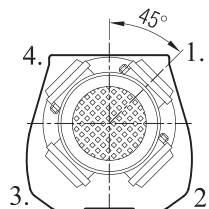


İRFM 721

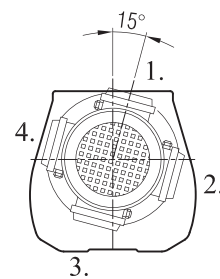
İRFM 731



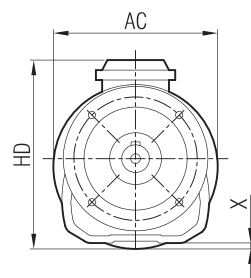
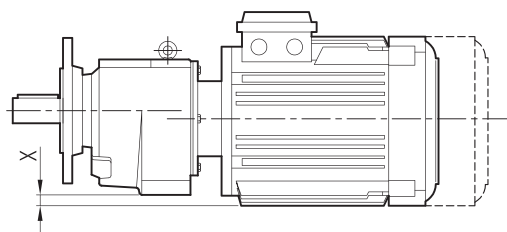
90-100-112-132 **Tip/Type/Typ**



71 **Tip/Type/Typ**



80 **Tip/Type/Typ**



	56	63	71	80	90 S	90 L	100	112	132 S	132 M						
A			478	509	535	560	600	621	665	711						
A ₁			551	592	620	645	702	746	807	853						
H			111	118	132	132	141	149	182	182						
HD			182	198	222	222	241	261	314	314						
AC			138	158	193	193	217	232	279	279						
X			-	-	-	-	-	-	13.3	13.3						

La cota "A1" se refiere a motores con freno

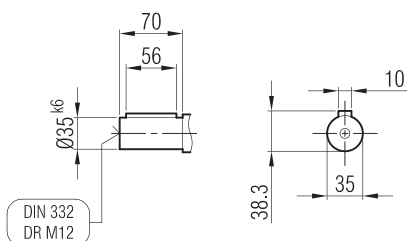
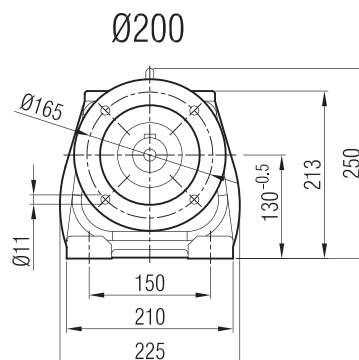
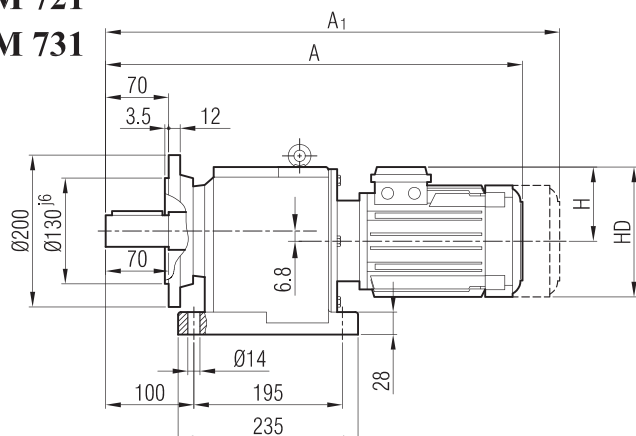
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse

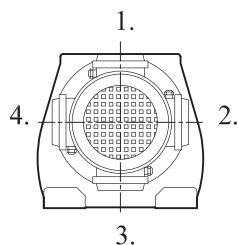


İRAFM 721

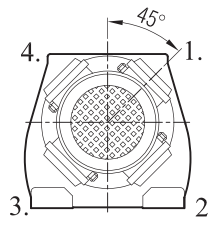
İRAFM 731



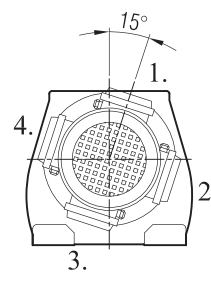
DIN 332
DR M12



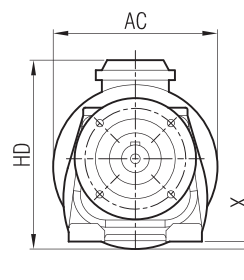
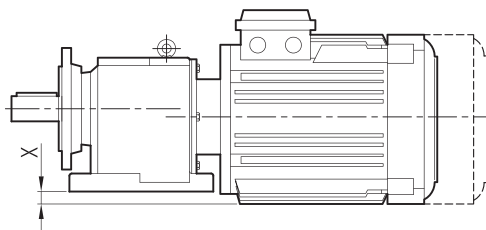
90-100-112-132 **Tip**/Type/Typ



71 **Tip**/Type/Typ



80 **Tip**/Type/Typ



	56	63	71	80	90 S	90 L	100	112	132 S	132 M							
A			478	509	535	560	600	621	665	711							
A ₁			551	592	620	645	702	746	807	853							
H			111	118	132	132	141	149	182	182							
HD			182	198	222	222	241	261	314	314							
AC			138	158	193	193	217	232	279	279							
X			-	-	-	-	-	-	16.3	16.3							

La cota "A1" se refiere a motores con freno

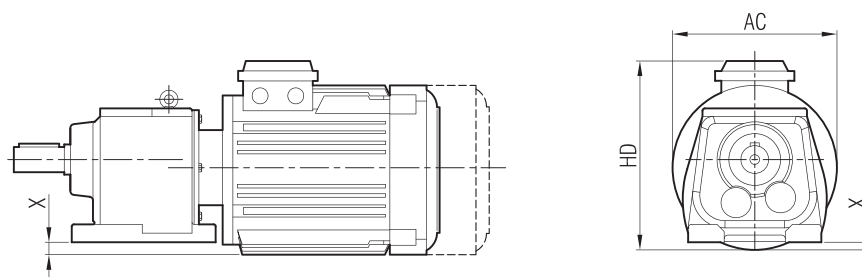
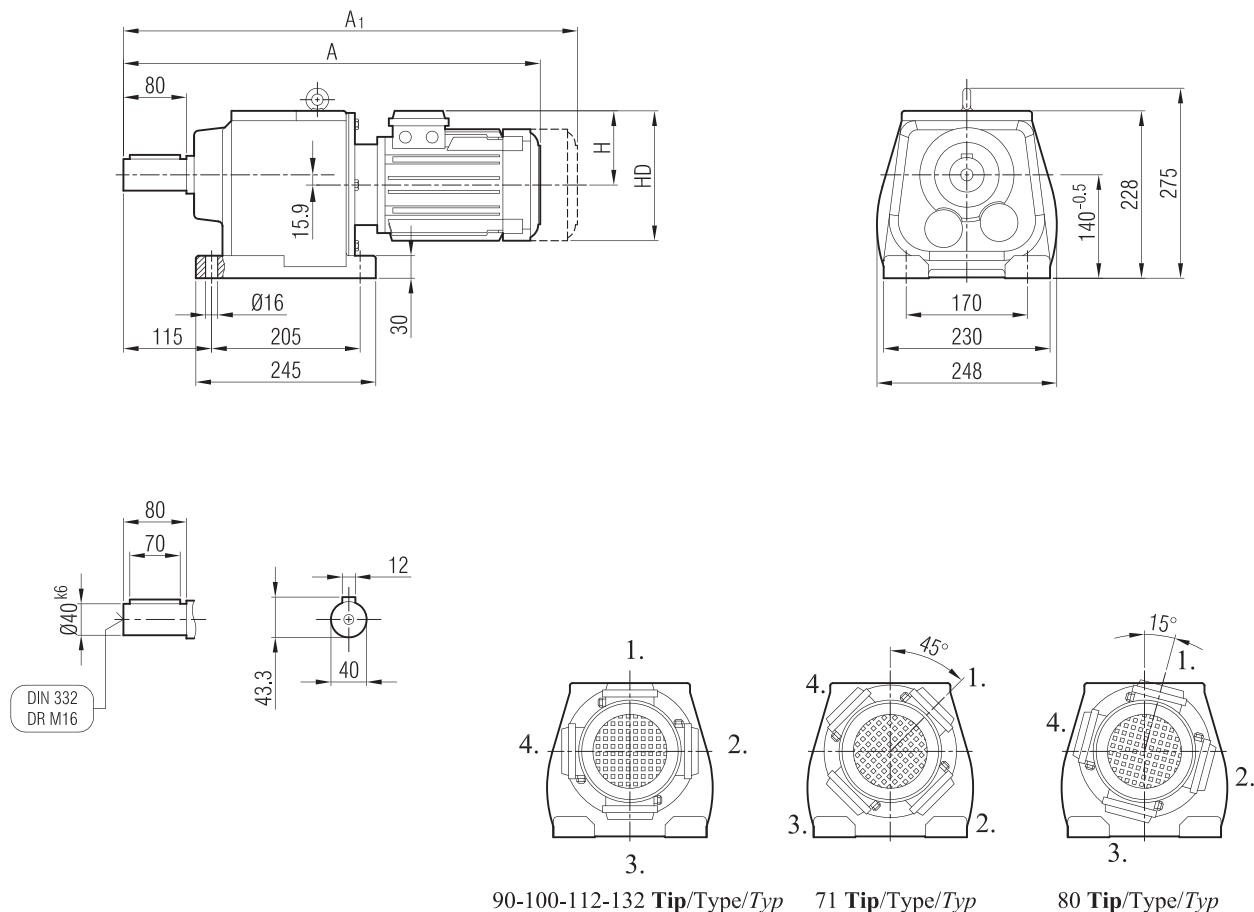
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRAM 72

İRAM 73



	56	63	71	80	90 S	90 L	100	112	132 S	132 M						
A			506	537	561	586	628	647	693	739						
A ₁			579	620	646	671	730	772	835	881						
H			111	118	132	132	141	149	182	182						
HD			182	198	222	222	241	261	314	314						
AC			132	158	193	193	217	232	279	279						
X			-	-	-	-	-	-	8	8						

La cota "A₁" se refiere a motores con freno

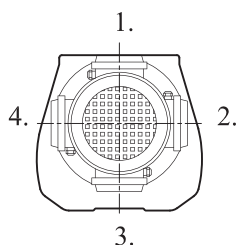
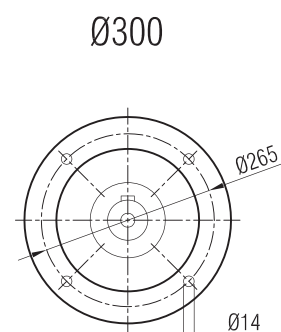
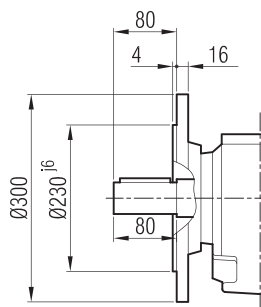
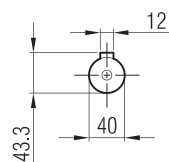
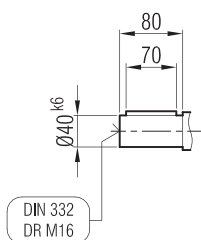
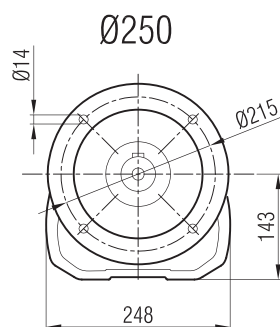
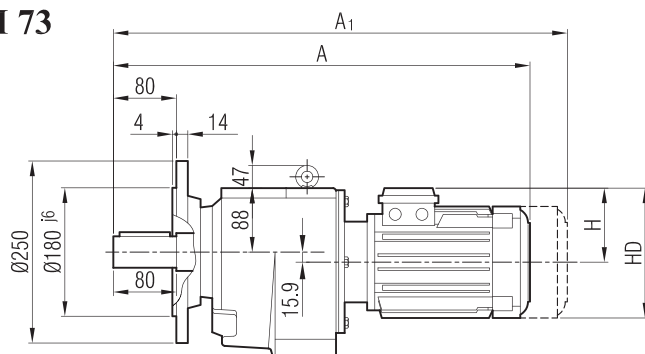
Dimension "A₁" is for motors with brake

MiB "A₁" ist für Motoren mit Bremse

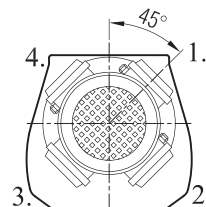


İRFM 72

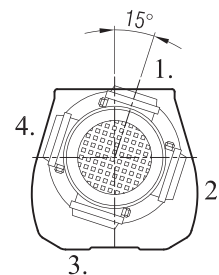
İRFM 73



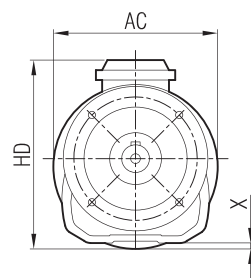
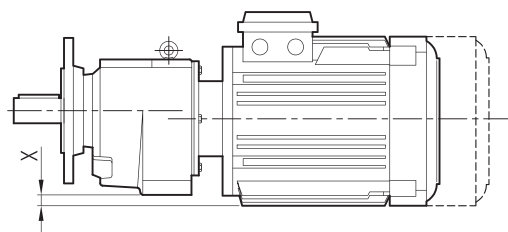
90-100-112-132 Tip/Type/Typ



71 Tip/Type/Typ



80 Tip/Type/Typ



	56	63	71	80	90 S	90 L	100	112	132 S	132 M						
A			506	537	561	586	628	647	693	739						
A ₁			579	620	646	671	730	772	835	881						
H			111	118	132	132	141	149	182	182						
HD			182	198	222	222	241	261	314	314						
AC			132	158	193	193	217	232	279	279						
X			-	-	-	-	-	-	5	5						

La cota "A1" se refiere a motores con freno

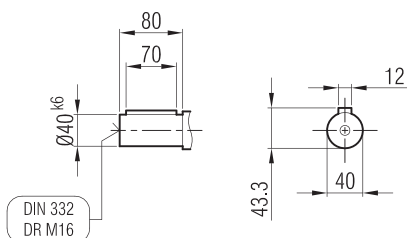
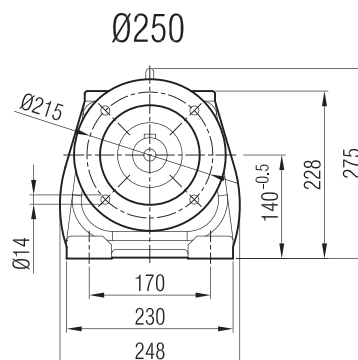
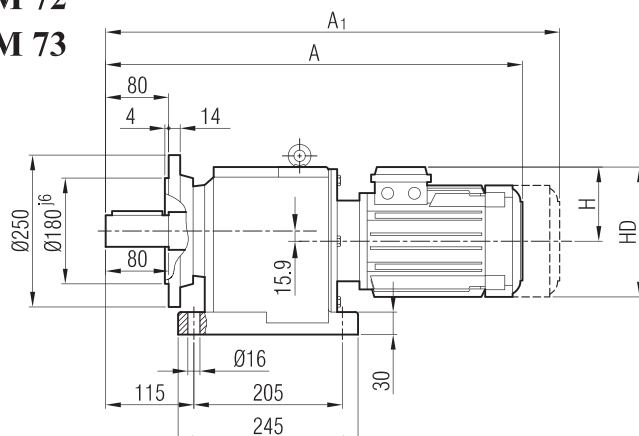
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse

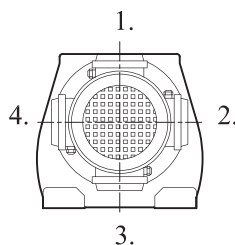


İRAFM 72

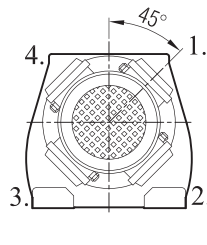
İRAFM 73



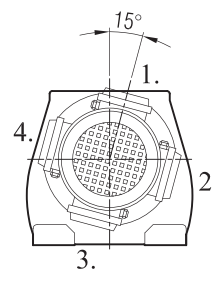
DIN 332
DR M16



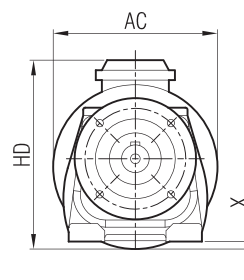
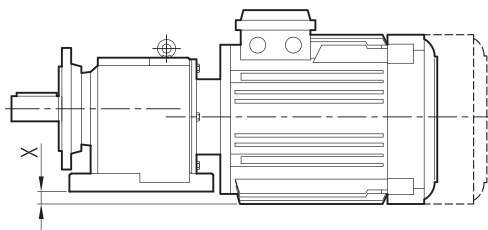
90-100-112-132 **Tip**/Type/Typ



71 **Tip**/Type/Typ



80 **Tip**/Type/Typ



	56	63	71	80	90 S	90 L	100	112	132 S	132 M						
A			506	537	561	586	628	647	693	739						
A ₁			579	620	646	671	730	772	835	881						
H			111	118	132	132	141	149	182	182						
HD			182	198	222	222	241	261	314	314						
AC			132	158	193	193	217	232	279	279						
X			-	-	-	-	-	-	8	8						

La cota "A1" se refiere a motores con freno

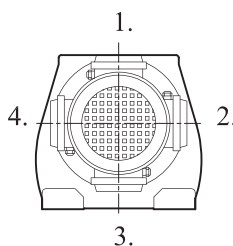
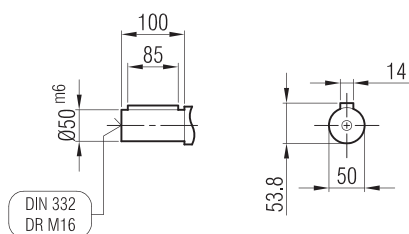
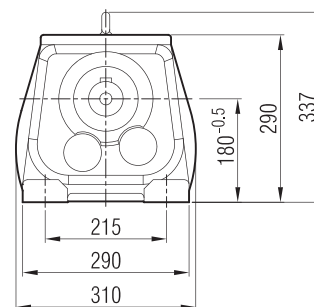
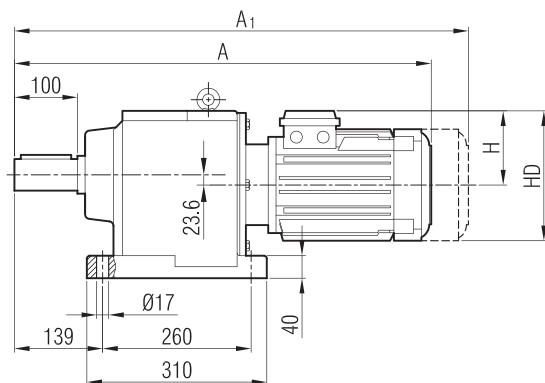
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse

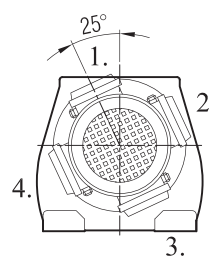


İRAM 82

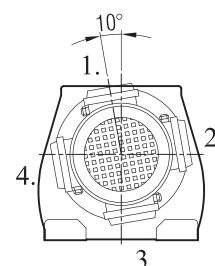
İRAM 83



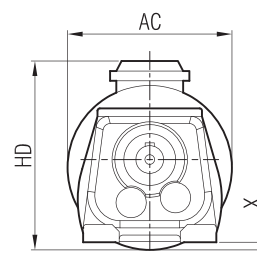
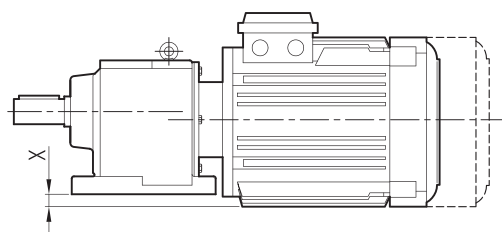
90-100-132-160-180 **Tip**/Type/Typ



80 **Tip**/Type/Typ



112 **Tip**/Type/Typ



	56	63	71	80	90 S	90 L	100	112	132 S	132 M	160 M	160 L	180 M	180 L			
A				607	628	653	696	718	769	815	885	924	936	974			
A ₁				690	713	738	798	843	911	957	1075	1114	1131	1169			
H				118	132	132	141	149	182	182	225	225	248	248			
HD				198	222	222	241	261	314	314	385	385	428	428			
AC				158	193	193	217	232	279	279	325	325	370	370			
X				-	-	-	-	-	-	-	4	4	24	24			

La cota "A1" se refiere a motores con freno

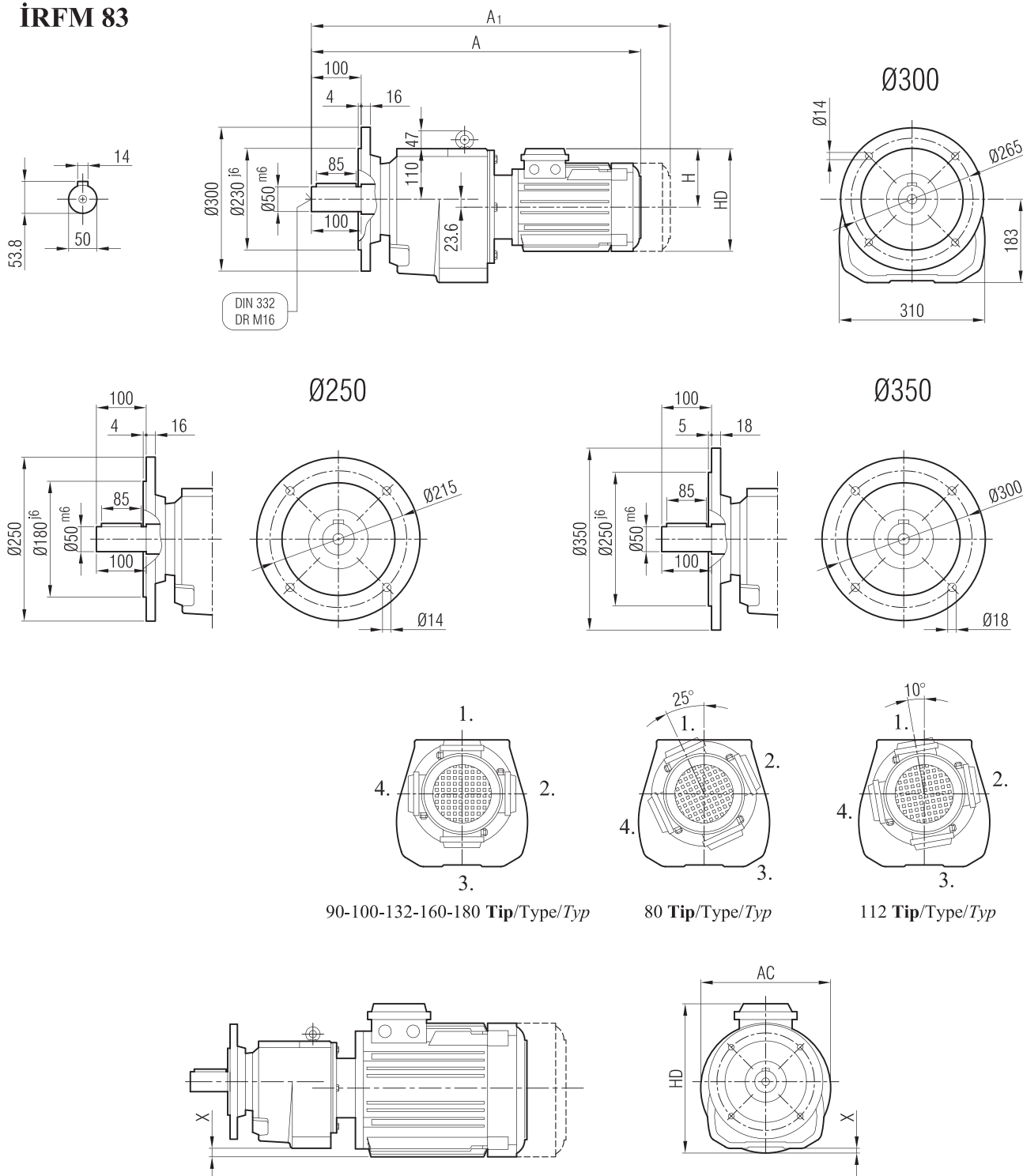
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



IRFM 82

IRFM 83



	56	63	71	80	90 S	90 L	100	112	132 S	132 M	160 M	160 L	180 M	180 L			
A				607	628	653	696	718	769	815	885	924	936	974			
A ₁				690	713	738	798	843	911	957	1075	1114	1131	1169			
H				118	132	132	141	149	182	182	225	225	248	248			
HD				198	222	222	241	261	314	314	385	385	428	428			
AC				158	193	193	217	232	279	279	325	325	370	370			
X				-	-	-	-	-	-	-	1	1	21	21			

La cota "A1" se refiere a motores con freno

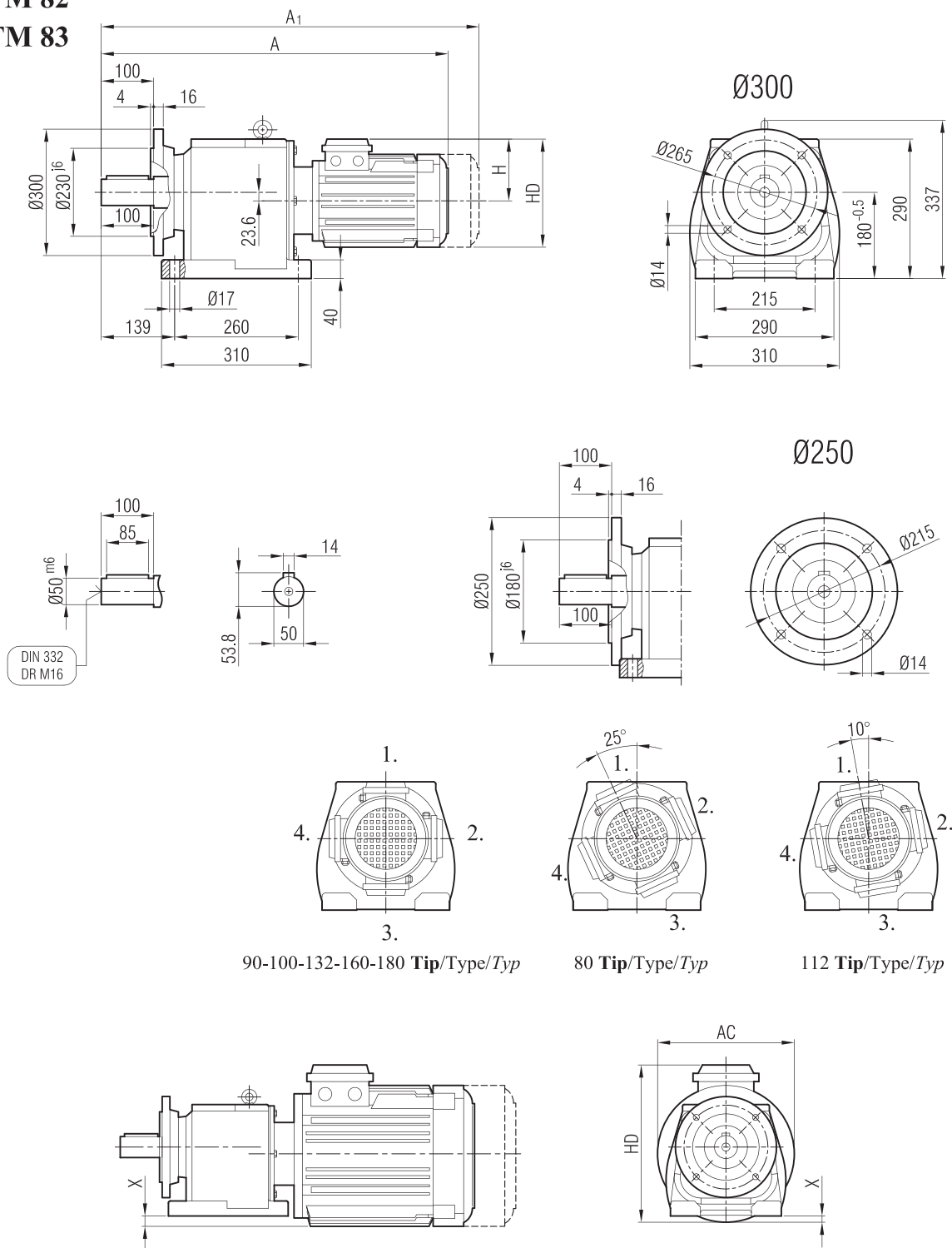
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRAFM 82

İRAFM 83



90-100-132-160-180 **Tip**/Type/Typ

80 **Tip**/Type/Typ

112 **Tip**/Type/Typ

	56	63	71	80	90 S	90 L	100	112	132 S	132 M	160 M	160 L	180 M	180 L			
A				607	628	653	696	718	769	815	885	924	936	974			
A ₁				690	713	738	798	843	911	957	1075	1114	1131	1169			
H				118	132	132	141	149	182	182	225	225	248	248			
HD				198	222	222	241	261	314	314	385	385	428	428			
AC				158	193	193	217	232	279	279	325	325	370	370			
X				-	-	-	-	-	-	-	4	4	24	24			

La cota "A1" se refiere a motores con freno

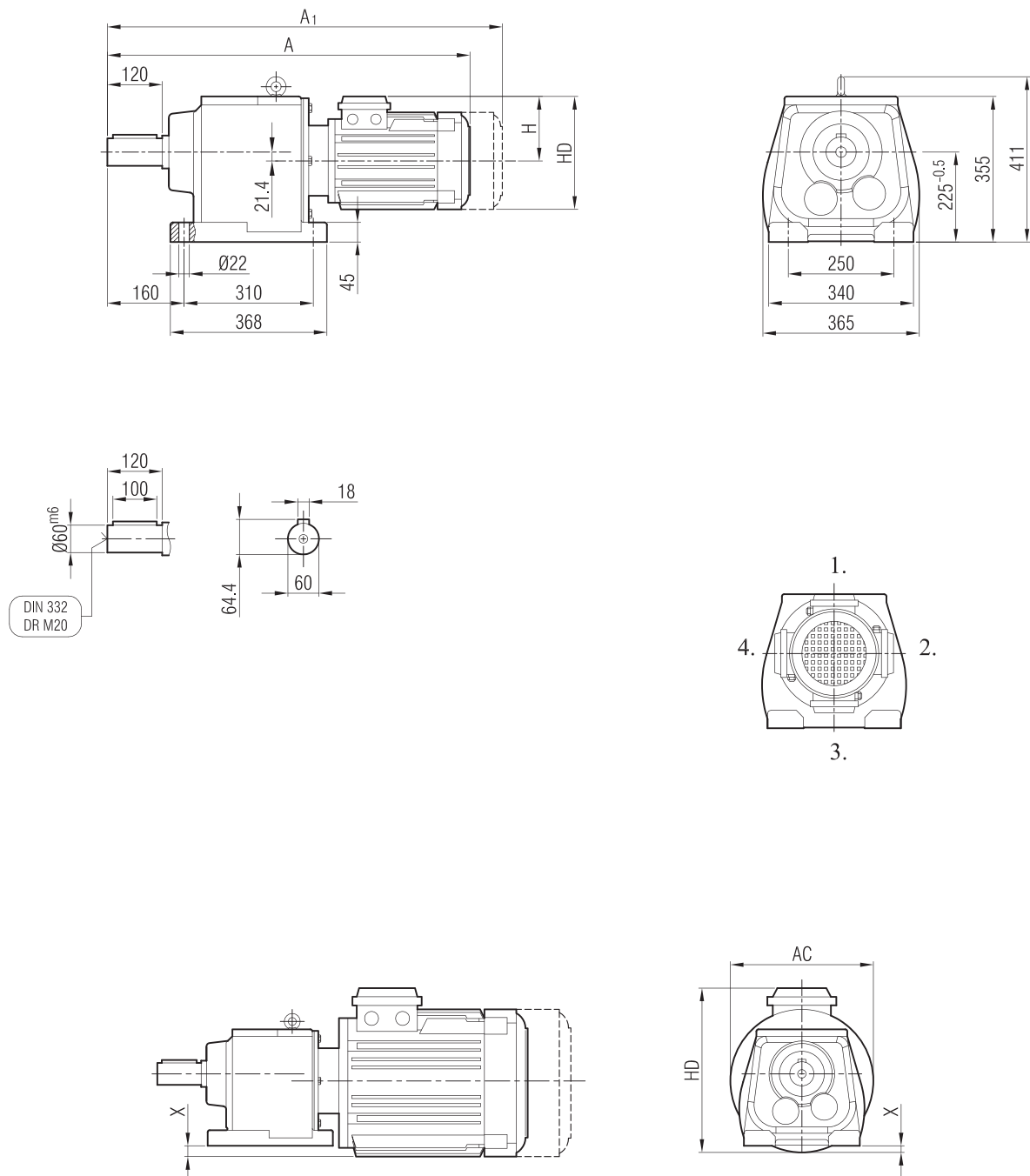
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRAM 92

İRAM 93



	56	63	71	80	90 S	90 L	100	112	132 S	132 M	160 M	160 L	180 M	180 L	200		
A				769	783	808	754	777	824	870	957	1001	1015	1053	1092		
A ₁				852	868	893	856	902	966	1012	1147	1191	1210	1248	-		
H				118	132	132	141	149	182	182	225	225	248	248	275		
HD				198	222	222	241	261	314	314	385	385	428	428	425		
AC				158	193	193	217	232	279	279	325	325	370	370	415		
X				-	-	-	-	-	-	-	-	-	-	-	-		

La cota "A₁" se refiere a motores con freno

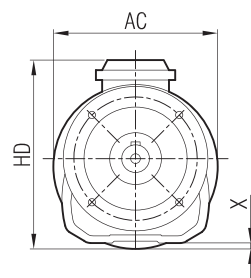
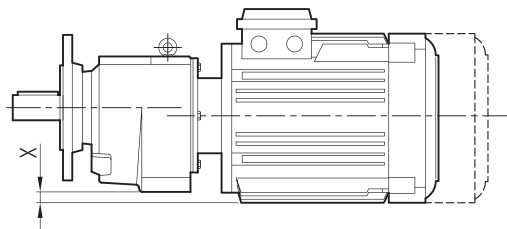
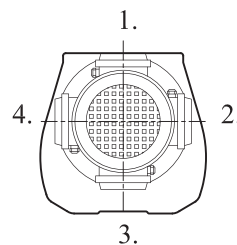
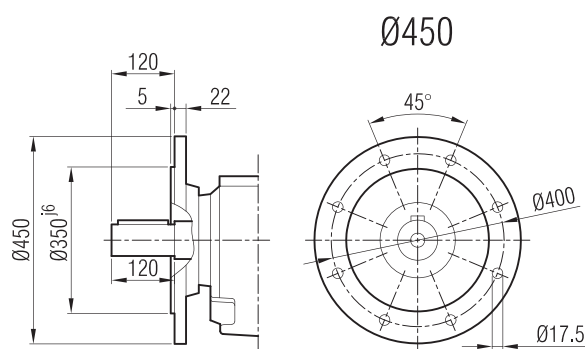
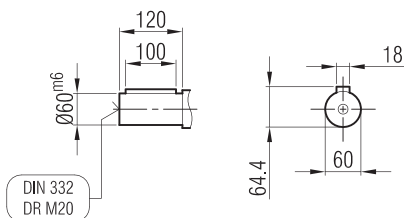
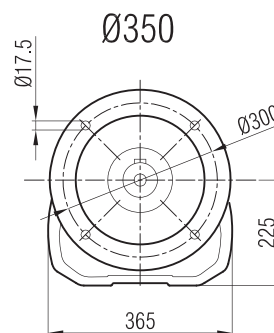
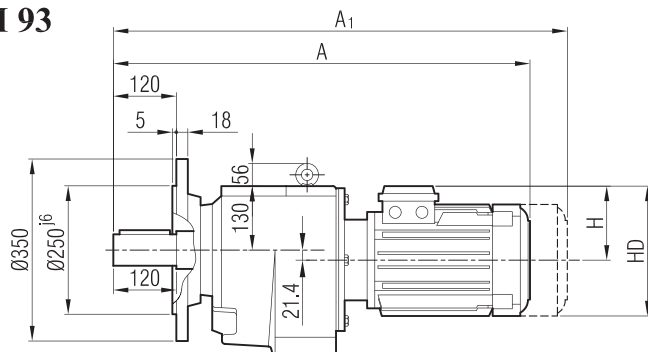
Dimension "A₁" is for motors with brake

MiB "A₁" ist für Motoren mit Bremse



İRFM 92

İRFM 93



	56	63	71	80	90 S	90 L	100	112	132 S	132 M	160 M	160 L	180 M	180 L	200		
A				769	783	808	754	777	824	870	957	1001	1015	1053	1092		
A ₁				852	868	893	856	902	966	1012	1147	1191	1210	1248	-		
H				118	132	132	141	149	182	182	225	225	248	248	275		
HD				198	222	222	241	261	314	314	385	385	428	428	425		
AC				158	193	193	217	232	279	279	325	325	370	370	415		
X				-	-	-	-	-	-	-	-	-	-	-	-		

La cota "A1" se refiere a motores con freno

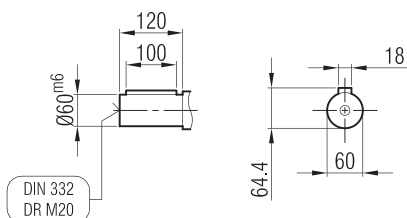
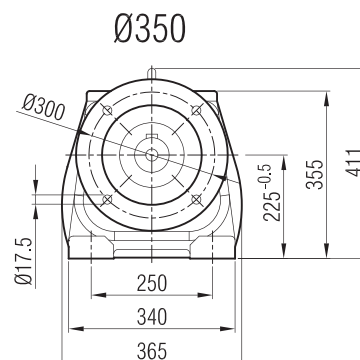
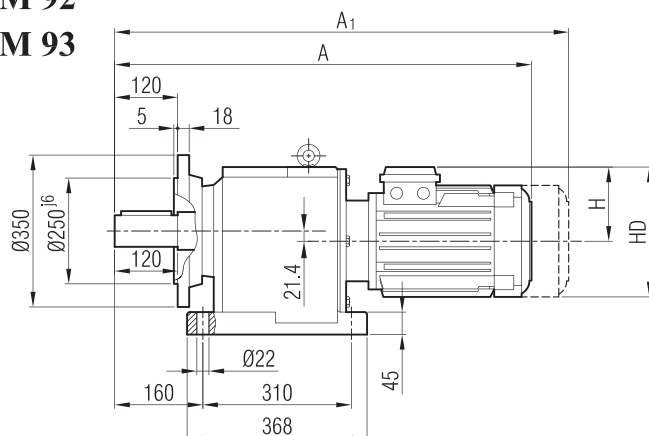
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse

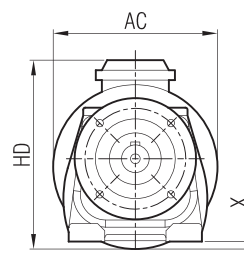
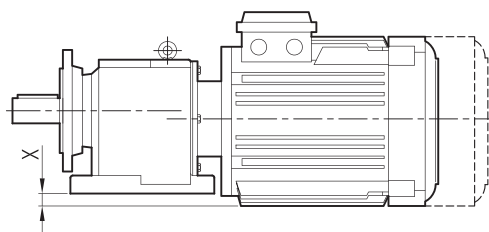
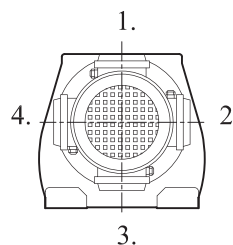


İRAFM 92

İRAFM 93



DIN 332
DR M20



	56	63	71	80	90 S	90 L	100	112	132 S	132 M	160 M	160 L	180 M	180 L	200		
A				769	783	808	754	777	824	870	957	1001	1015	1053	1092		
A ₁				852	868	893	856	902	966	1012	1147	1191	1210	1248	-		
H				118	132	132	141	149	182	182	225	225	248	248	275		
HD				198	222	222	241	261	314	314	385	385	428	428	425		
AC				158	193	193	217	232	279	279	325	325	370	370	415		
X				-	-	-	-	-	-	-	-	-	-	-	-		

La cota "A1" se refiere a motores con freno

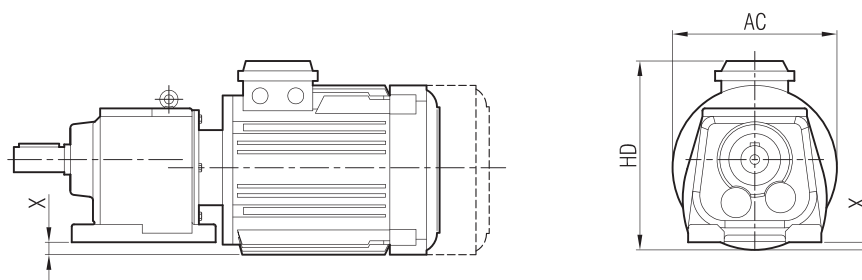
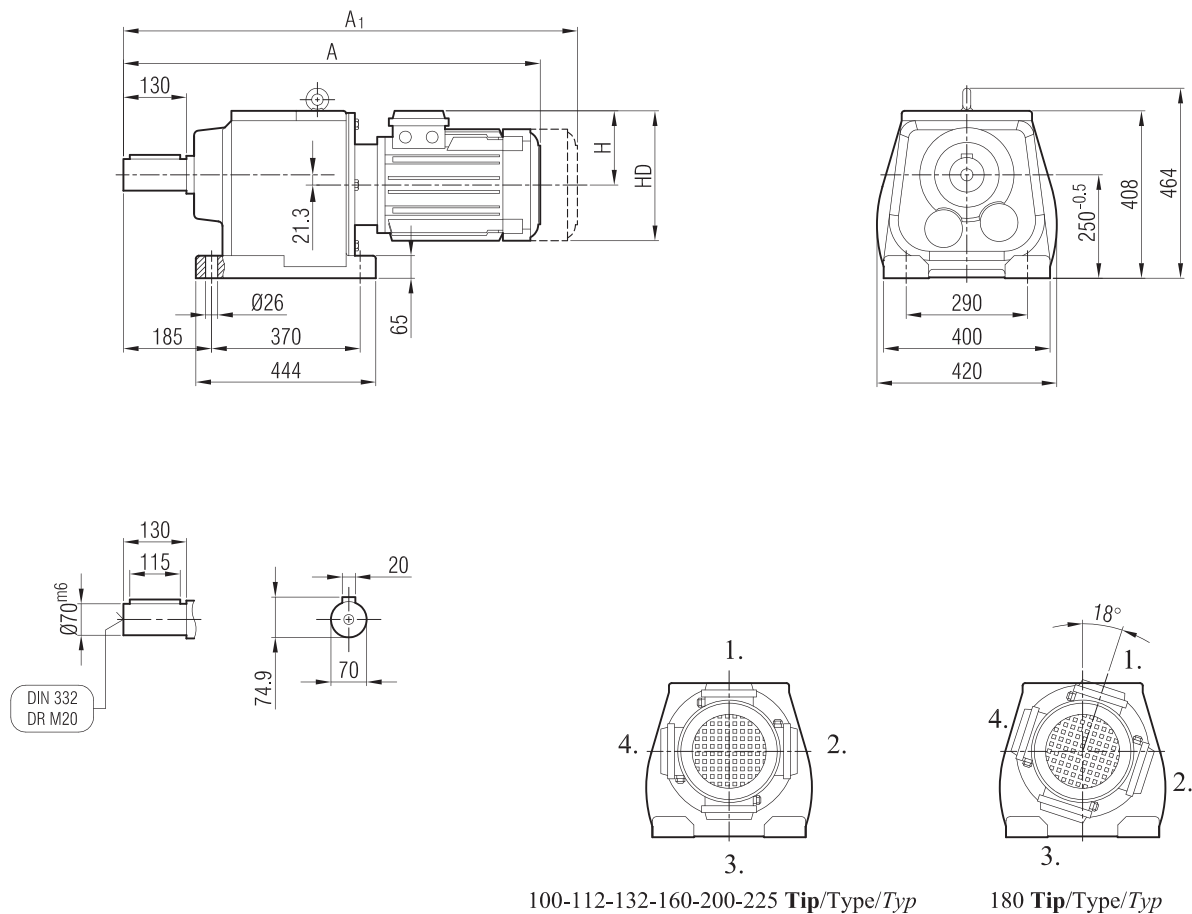
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRAM 102

İRAM 103



	56	63	71	80	90 S	90 L	100	112	132 S	132 M	160 M	160 L	180 M	180 L	200	225 S	225 M
A							902	923	893	939	1023	1053	1082	1120	1172	1179	1204
A ₁							992	1048	1035	1081	1213	1243	1277	1315	-	-	-
H							141	149	182	182	225	225	248	248	275	285	285
HD							241	261	314	314	385	385	428	428	425	510	510
AC							217	232	279	279	325	325	370	370	415	456	456
X							-	-	-	-	-	-	-	-	-	-	-

La cota "A1" se refiere a motores con freno

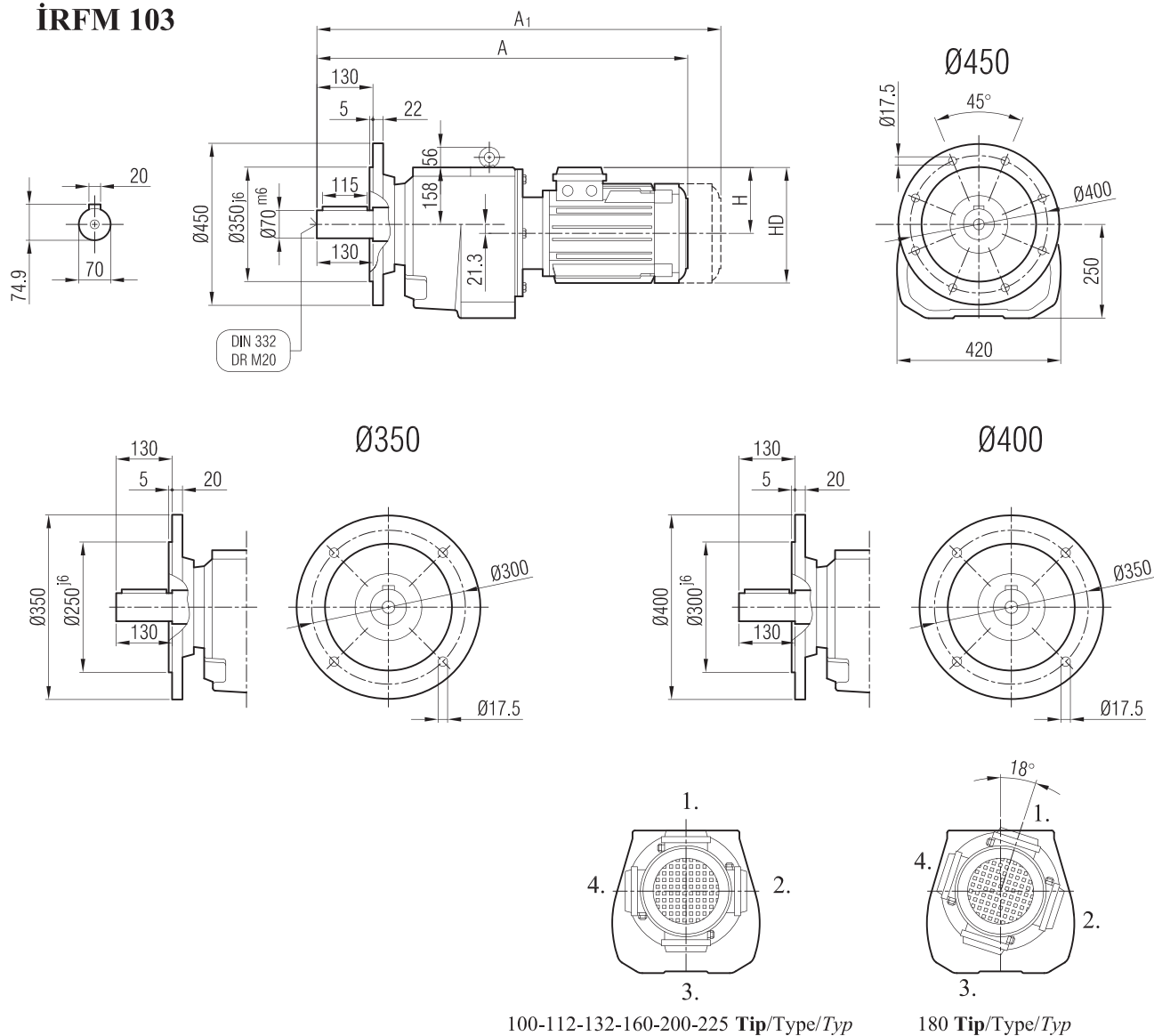
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



IRFM 102

IRFM 103



	56	63	71	80	90 S	90 L	100	112	132 S	132 M	160 M	160 L	180 M	180 L	200	225 S	225 M
A							902	923	893	939	1023	1053	1082	1120	1172	1179	1204
A1							992	1048	1035	1081	1213	1243	1277	1315	-	-	-
H							141	149	182	182	225	225	248	248	275	285	285
HD							241	261	314	314	385	385	428	428	425	510	510
AC							217	232	279	279	325	325	370	370	415	456	456
X							-	-	-	-	-	-	-	-	-	-	-

La cota "A1" se refiere a motores con freno

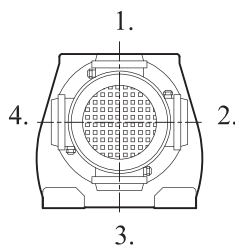
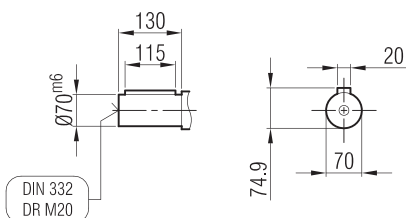
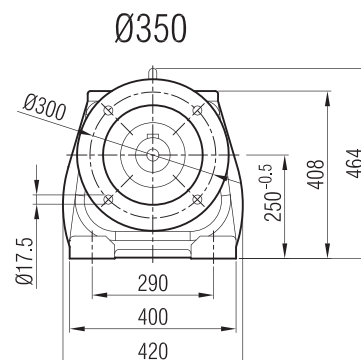
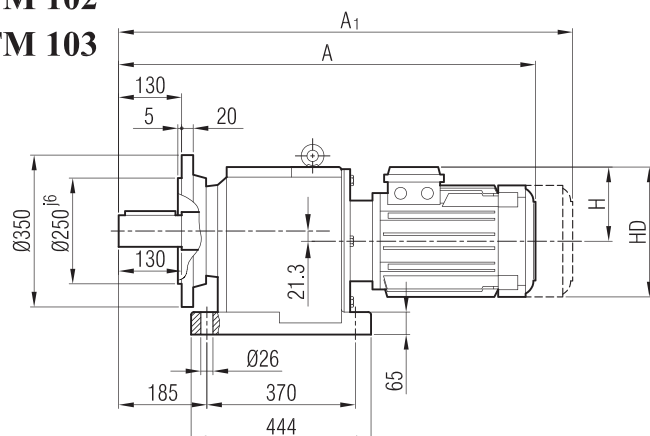
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse

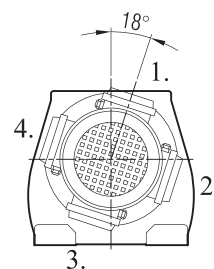


İRAFM 102

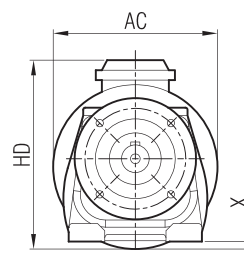
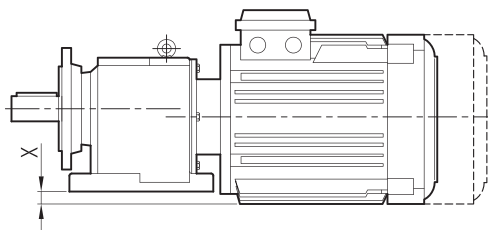
İRAFM 103



100-112-132-160-200-225 **Tip/Type/Typ**



180 **Tip/Type/Typ**



	56	63	71	80	90 S	90 L	100	112	132 S	132 M	160 M	160 L	180 M	180 L	200	225 S	225 M
A							902	923	893	939	1023	1053	1082	1120	1172	1179	1204
A ₁							992	1048	1035	1081	1213	1243	1277	1315	-	-	-
H							141	149	182	182	225	225	248	248	275	285	285
HD							241	261	314	314	385	385	428	428	425	510	510
AC							217	232	279	279	325	325	370	370	415	456	456
X							-	-	-	-	-	-	-	-	-	-	-

La cota "A1" se refiere a motores con freno

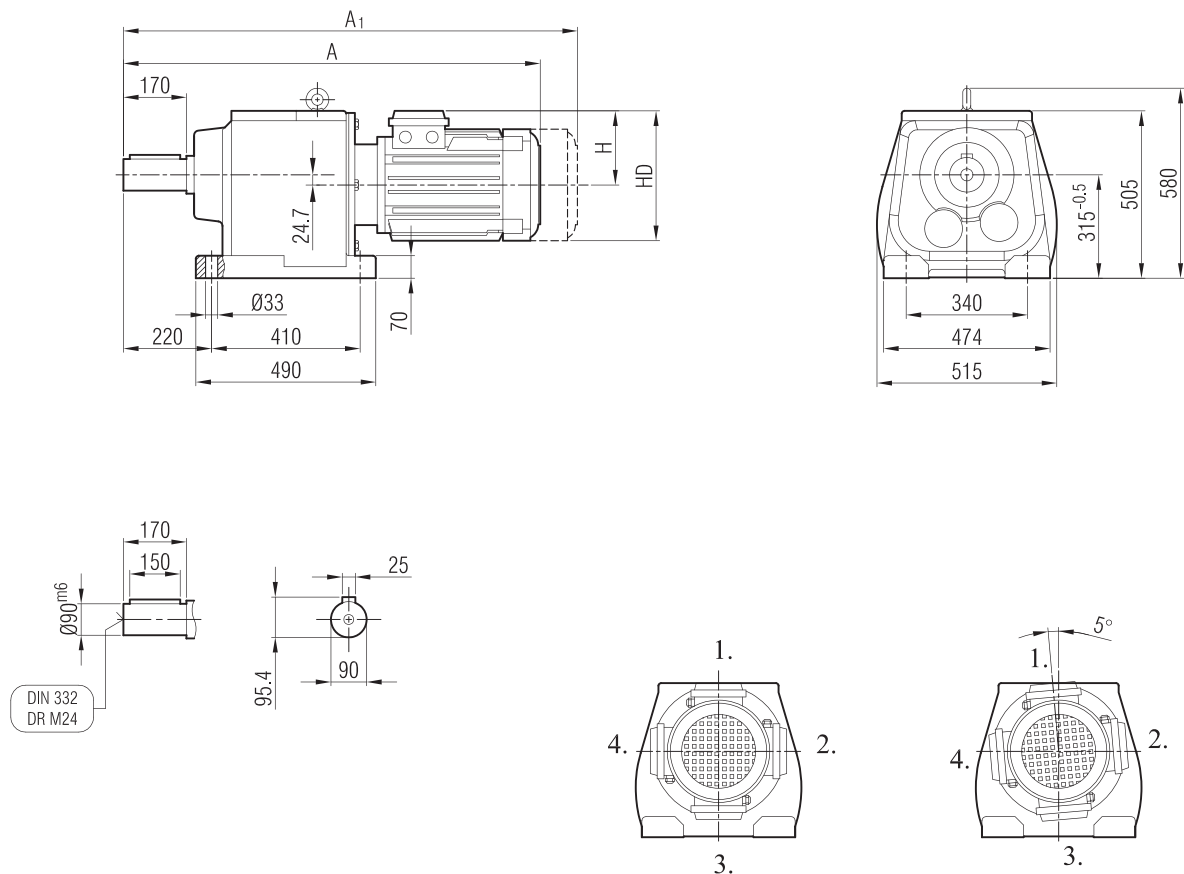
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



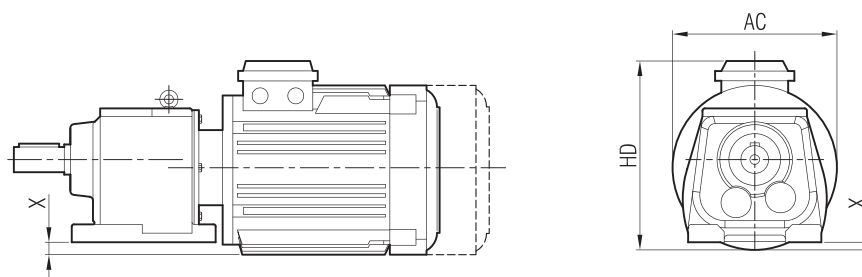
İRAM 122

İRAM 123



100-112-132-160-180-225-250 Tip/Type/Typ

200 Tip/Type/Typ



	63	71	80	90 S	90 L	100	112	132 S	132 M	160 M	160 L	180 M	180 L	200	225 S	225 M	250
A								957	1003	1080	1124	1140	1178	1227	1260	1285	1362
A ₁								1099	1145	1270	1314	1335	1372	-	-	-	-
H								182	182	225	225	248	248	275	285	285	322
HD								314	314	385	385	428	428	425	510	510	572
AC								279	279	325	325	370	370	415	456	456	480
X								-	-	-	-	-	-	-	-	-	-

La cota "A1" se refiere a motores con freno

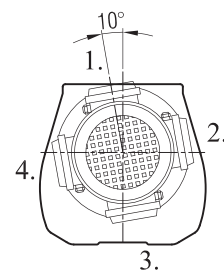
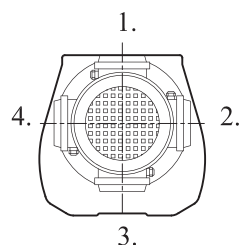
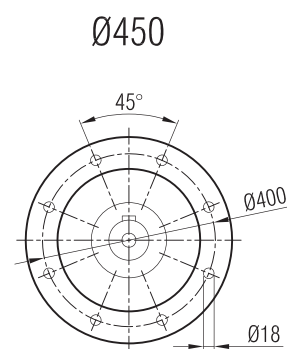
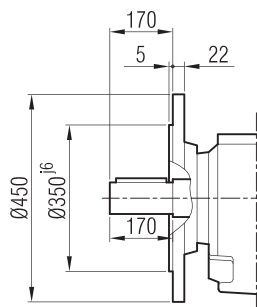
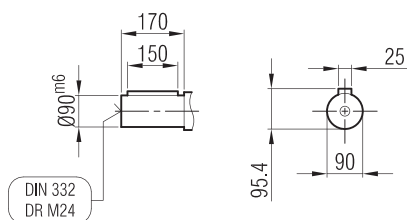
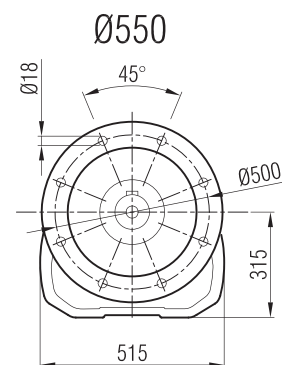
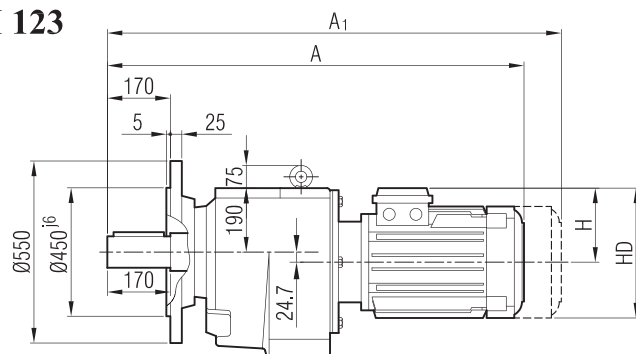
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



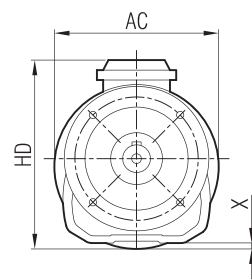
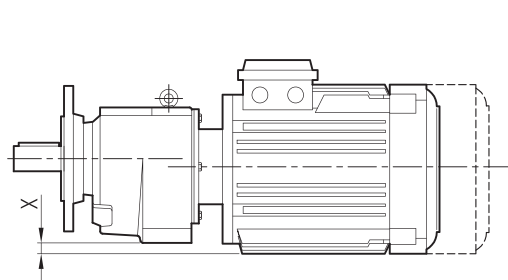
IRFM 122

IRFM 123



100-112-132-160-180-225-250 Tip/Type/Typ

200 Tip/Type/Typ



	63	71	80	90 S	90 L	100	112	132 S	132 M	160 M	160 L	180 M	180 L	200	225 S	225 M	250
A								957	1003	1080	1124	1140	1178	1227	1260	1285	1362
A ₁								1099	1145	1270	1314	1335	1372	-	-	-	-
H								182	182	225	225	248	248	275	285	285	322
HD								314	314	385	385	428	428	425	510	510	572
AC								279	279	325	325	370	370	415	456	456	480
X								-	-	-	-	-	-	-	-	-	-

La cota "A1" se refiere a motores con freno

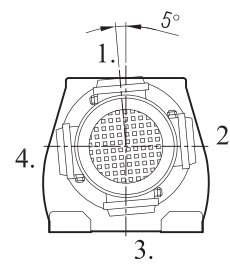
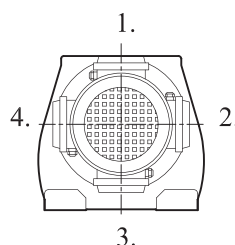
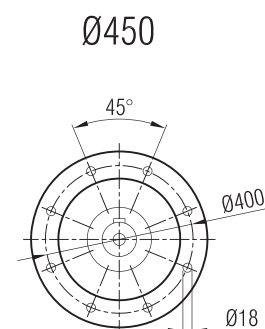
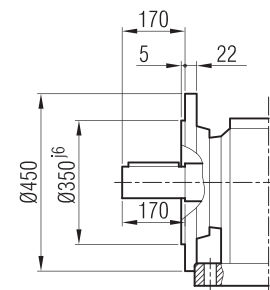
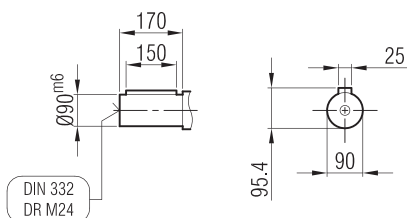
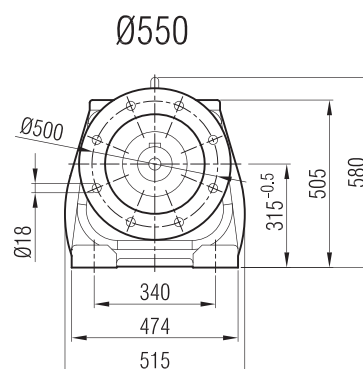
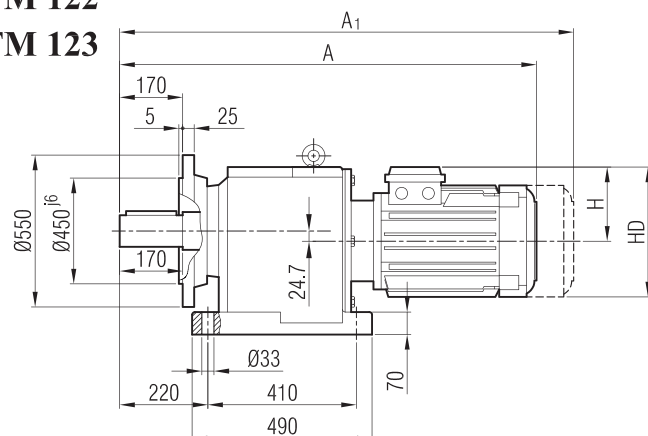
Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



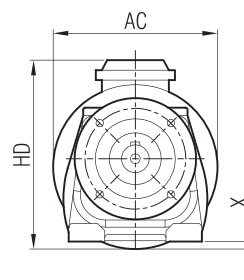
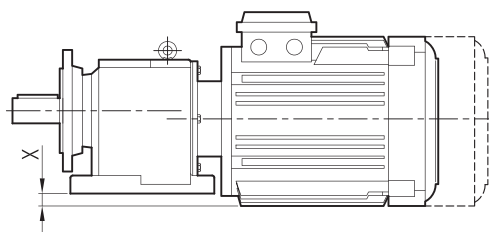
İRAFM 122

İRAFM 123



100-112-132-160-180-225-250 **Tip**/Type/Typ

200 **Tip**/Type/Typ



	63	71	80	90 S	90 L	100	112	132 S	132 M	160 M	160 L	180 M	180 L	200	225 S	225 M	250
A								957	1003	1080	1124	1140	1178	1227	1260	1285	1362
A ₁								1099	1145	1270	1314	1335	1372	-	-	-	-
H								182	182	225	225	248	248	275	285	285	322
HD								314	314	385	385	428	428	425	510	510	572
AC								279	279	325	325	370	370	415	456	456	480
X								-	-	-	-	-	-	-	-	-	-

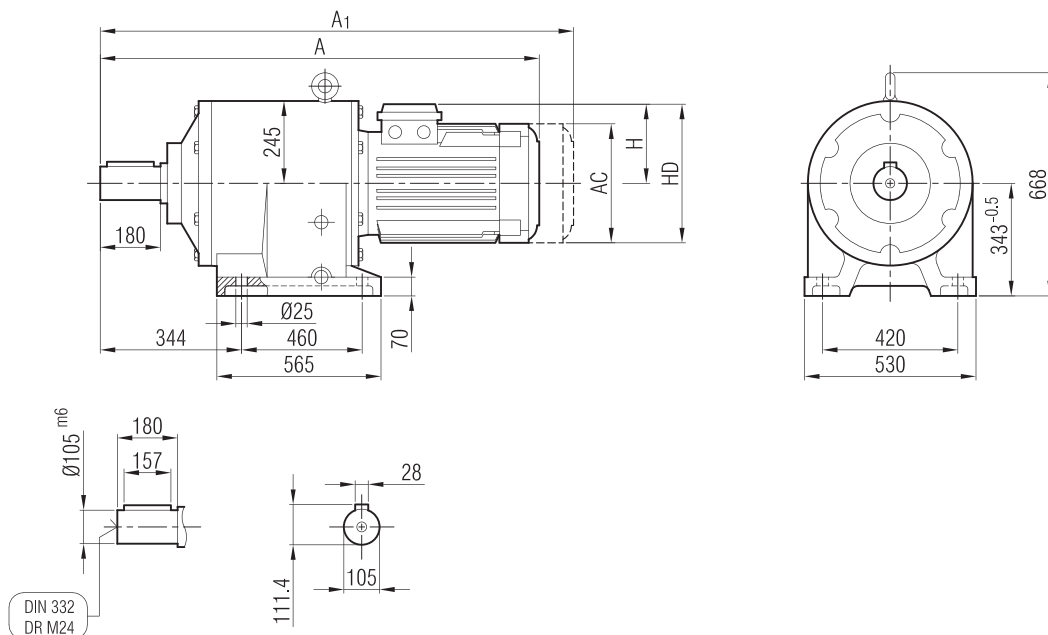
La cota "A1" se refiere a motores con freno

Dimension "A1" is for motors with brake

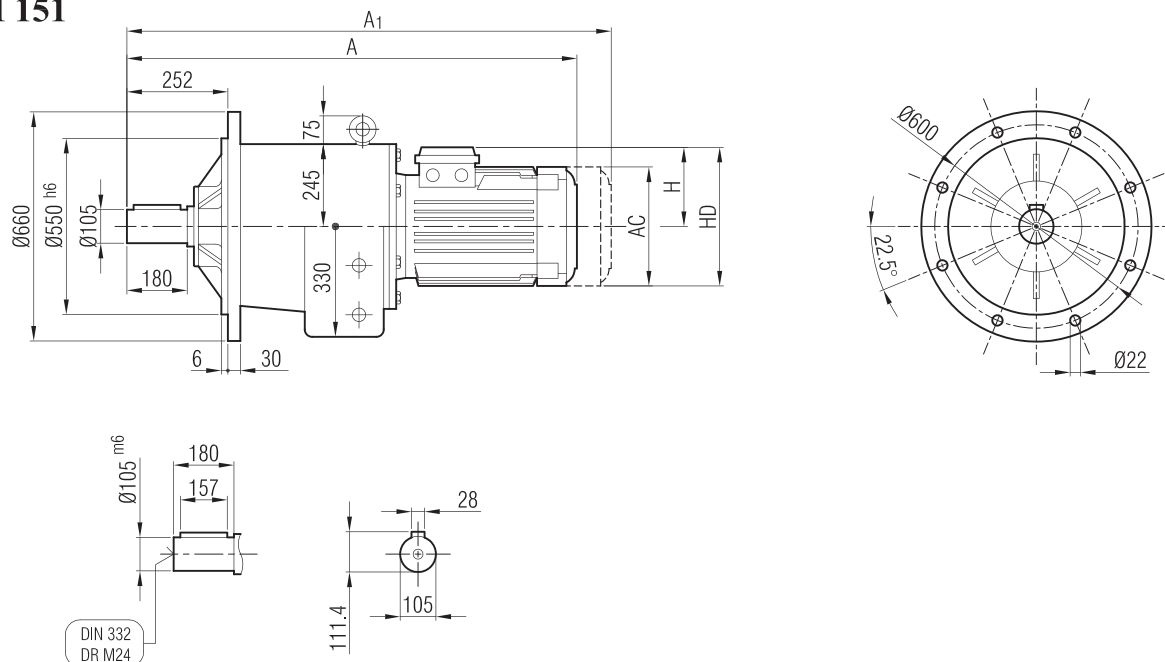
MiB "A1" ist für Motoren mit Bremse



İRAM 151



İRFM 151



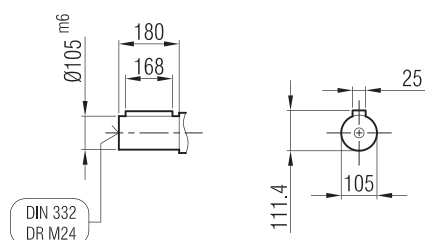
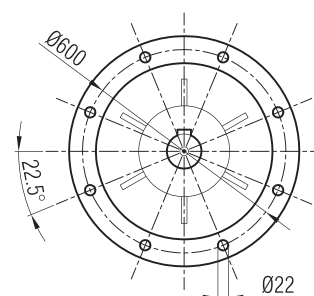
	80	90 S	90 L	100	112	132 S	132 M	160 M	160 L	180 M	180 L	200	225 S	225 M	250	280 S	280 M
A							1168	1252	1296	1305	1343	1403	1406	1431	1507	1569	1569
A1							-	-	-	-	-	-	-	-	-	-	-
H							182	225	225	248	248	275	285	285	322	350	350
HD							314	385	385	428	428	475	510	510	572	630	630
AC							279	325	325	370	370	415	456	456	480	544	544

La cota "A1" se refiere a motores con freno

Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse

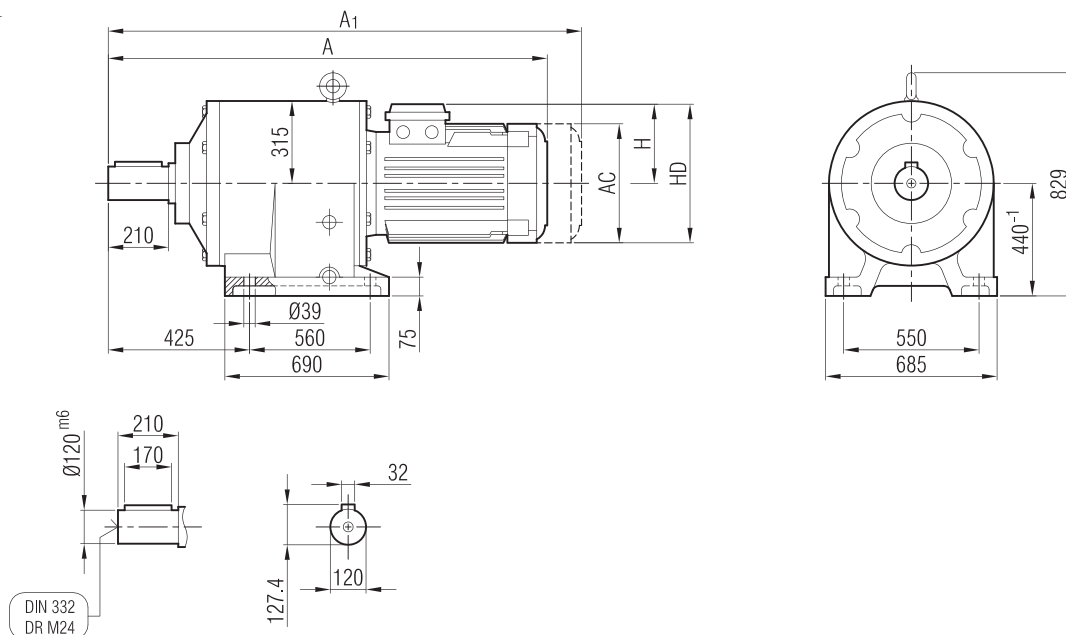
Technical drawing of the motor assembly showing dimensions in mm. The drawing includes a side view of the motor with dimensions: Ø660, Ø550 h6, Ø270, Ø105 m6, 180, 800, A1, A, 75, 245, 330, AC, H, HD, 5, and 28.



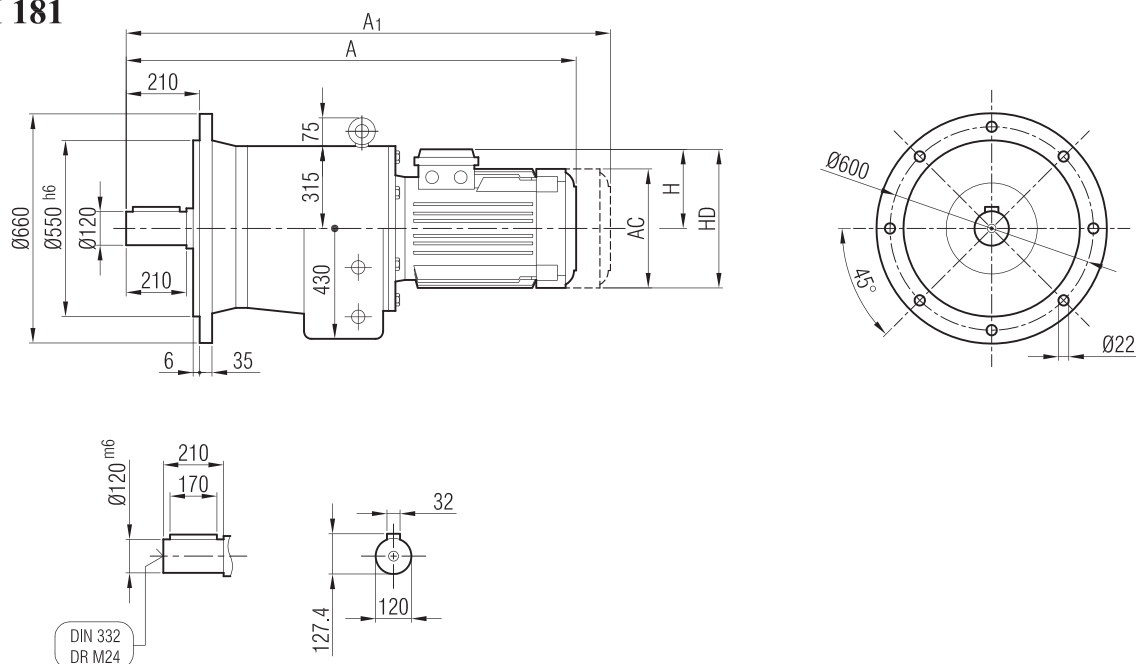
La cota "A1" se refiere a motores con freno
 Dimension "A1" is for motors with brake
MiB "A1" ist für Motoren mit Bremse



İRAM 181



İRFM 181



	100	112	132 S	132 M	160 M	160 L	180 M	180 L	200	225 S	225 M	250	280 S	280 M	315 S	315 M	315 L
A					1406	1406	1463	1501	1552	1572	1597	1650	1748	1748	1910	1910	1980
A ₁					-	-	-	-	-	-	-	-	-	-	-	-	-
H					225	225	248	248	275	285	285	322	350	350	510	510	510
HD					385	385	428	428	475	510	510	572	630	630	825	825	825
AC					325	325	370	370	415	456	456	480	544	544	614	614	614

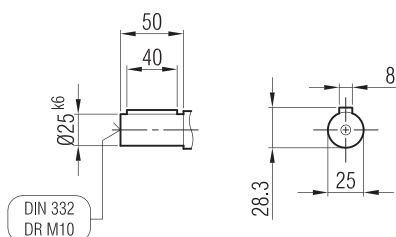
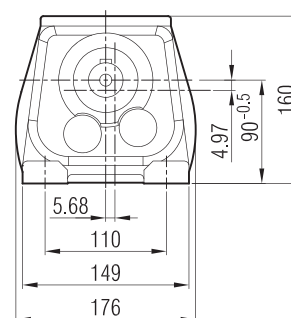
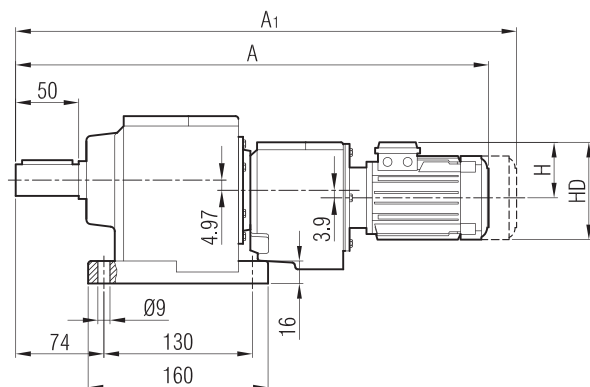
La cota "A1" se refiere a motores con freno

Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRAM 53 İR 42



	56	63	71													
A		514	542													
A ₁		572	615													
H		99	111													
HD		162	182													
AC		123	132													

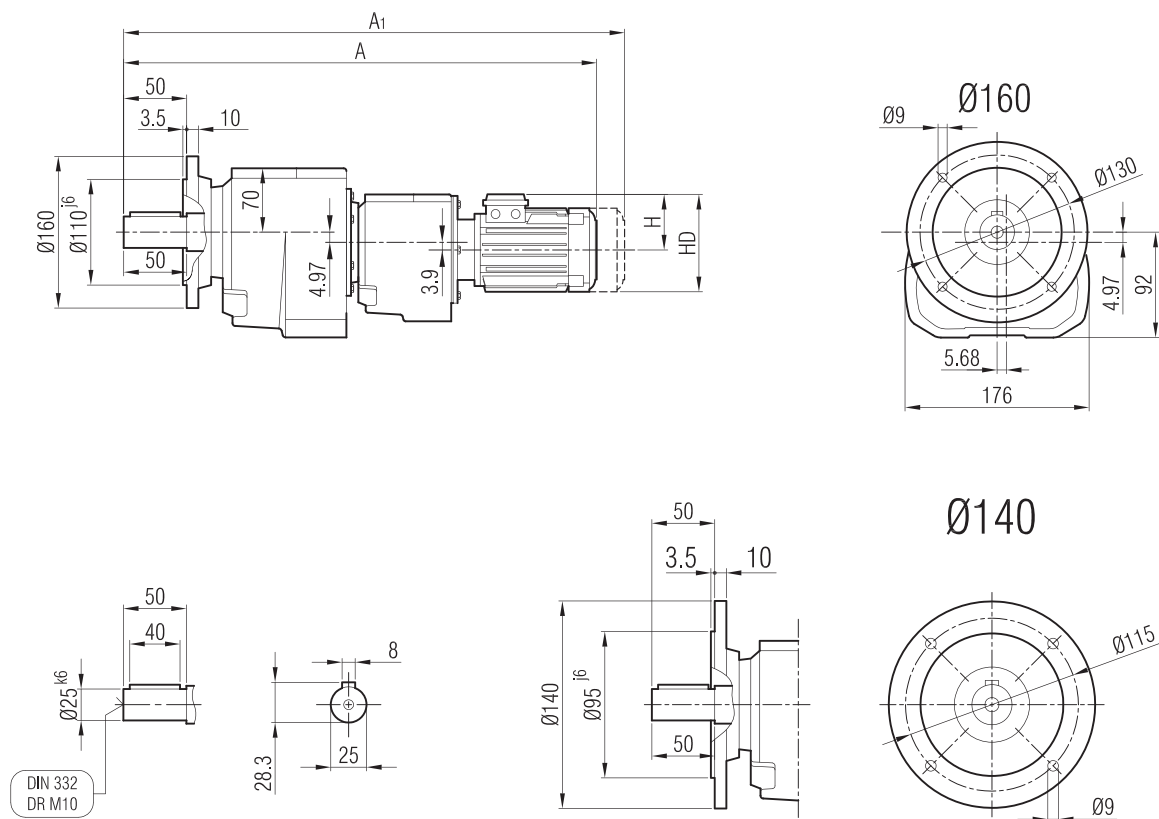
La cota "A1" se refiere a motores con freno

Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRFM 53 İR 42



	56	63	71												
A		514	542												
A ₁		572	615												
H		99	111												
HD		162	182												
AC		123	132												

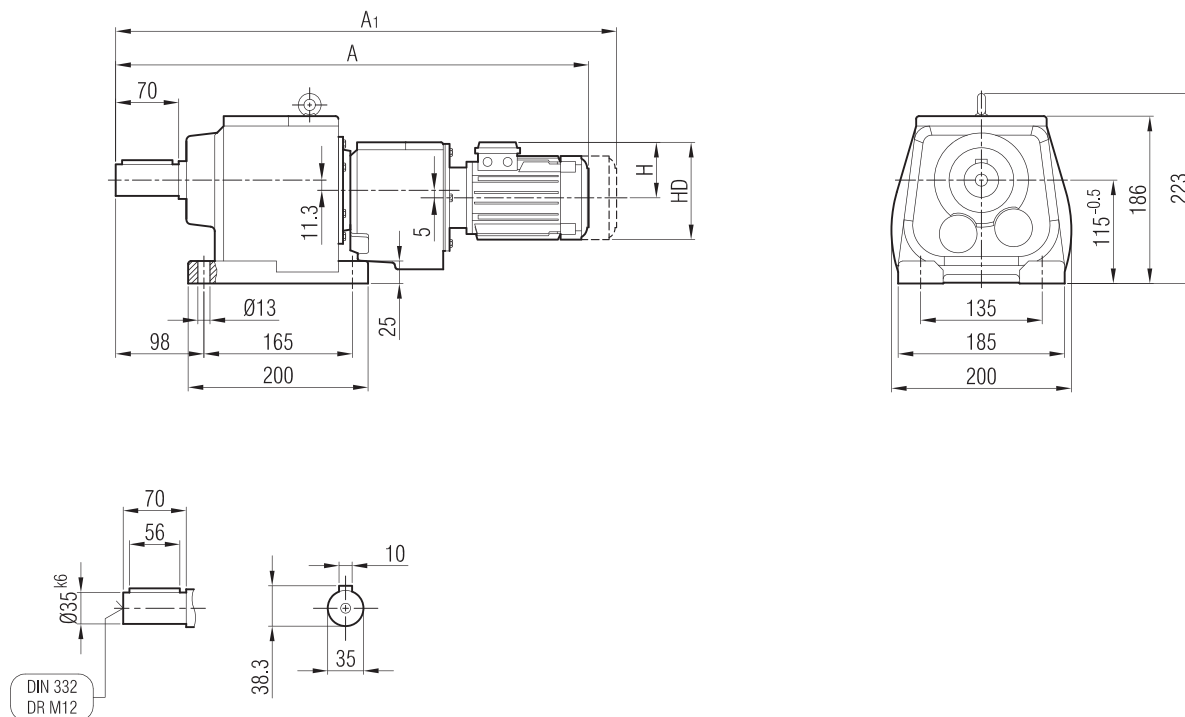
La cota "A1" se refiere a motores con freno

Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRAM 62 İR 52
İRAM 63 İR 52

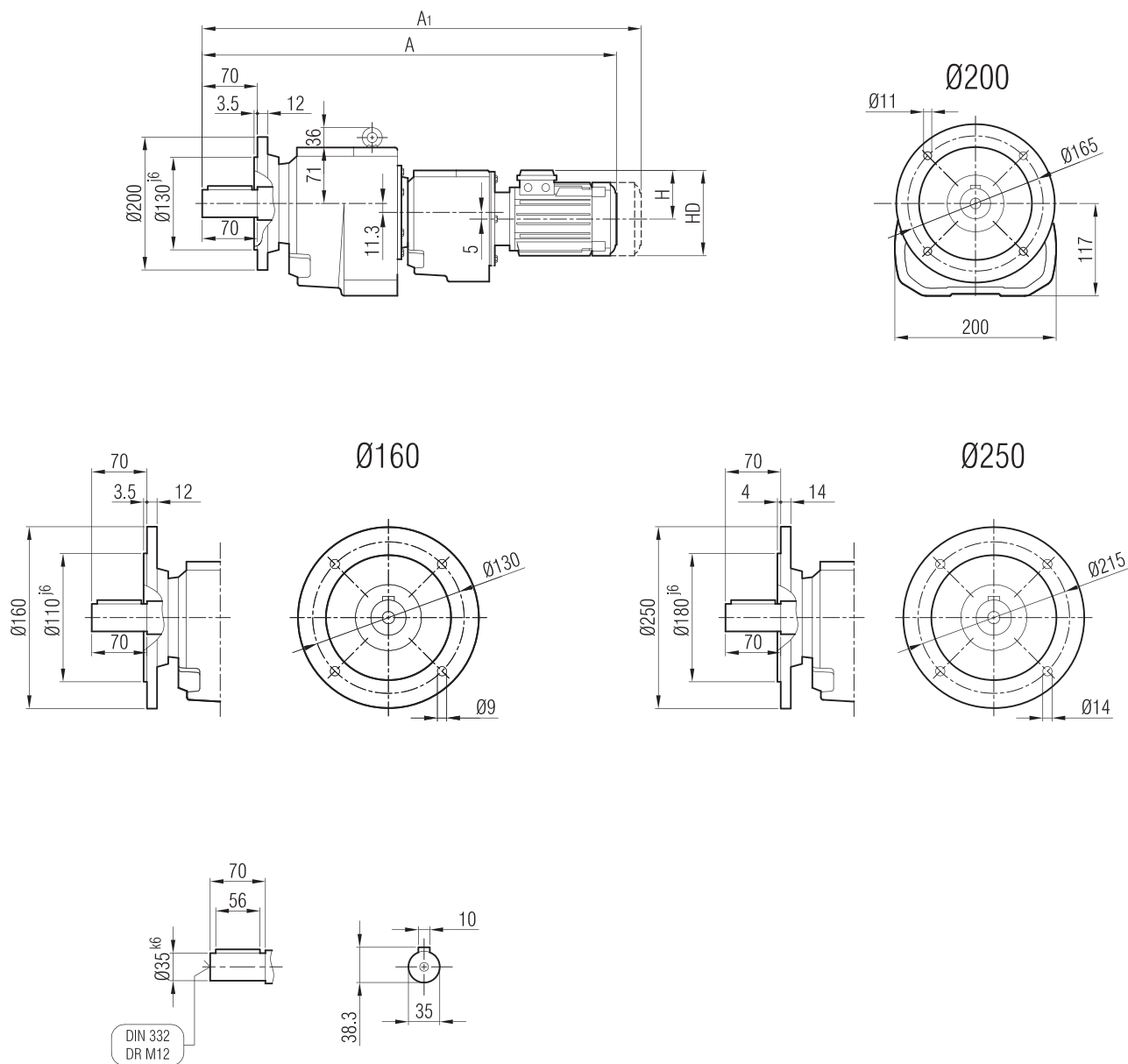


	56	63	71													
A		630	620													
A ₁		690	680													
H		99	111													
HD		162	182													
AC		123	132													

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MiB "A1" ist für Motoren mit Bremse



İRFM 62 İR 52
İRFM 63 İR 52



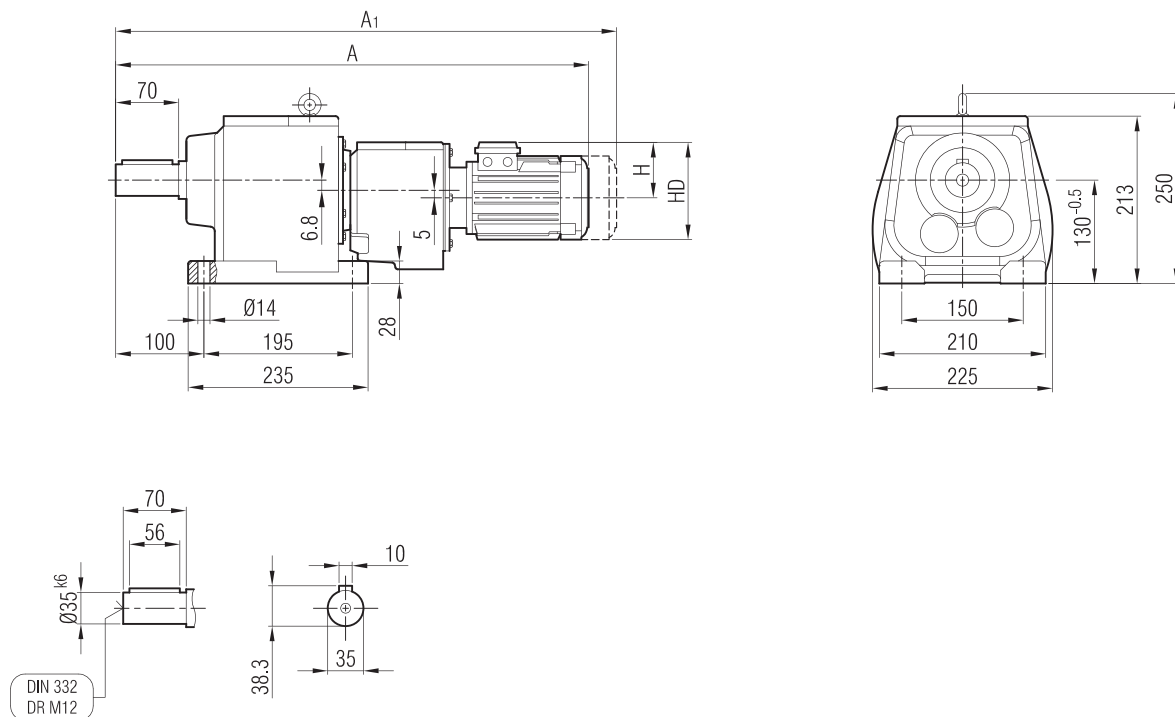
	56	63	71													
A		630	620													
A ₁		690	680													
H		99	111													
HD		162	182													
AC		123	132													

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MiB "A1" ist für Motoren mit Bremse



İRAM 721 İR 53

İRAM 731 İR 52



	56	63	71	80												
A		655	642	673												
A ₁		713	703	734												
H		99	111	118												
HD		162	182	198												
AC		123	132	158												

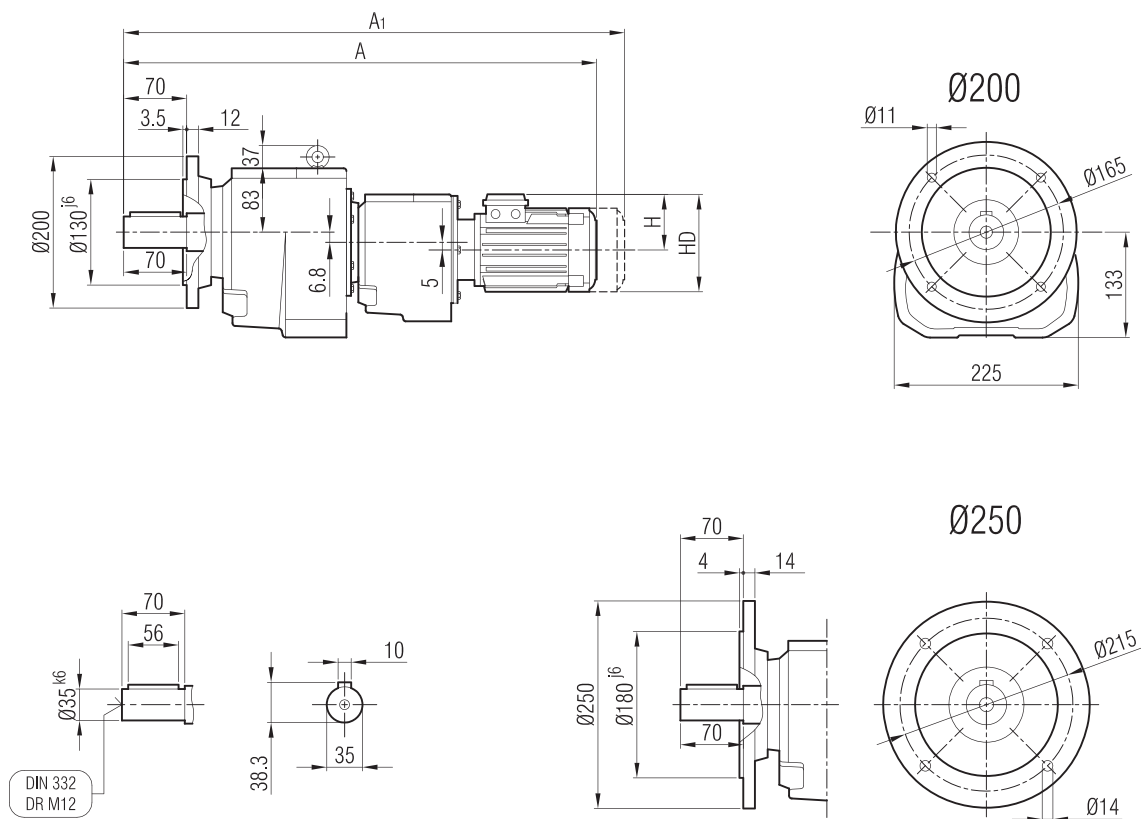
La cota "A1" se refiere a motores con freno

Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRFM 721 İR 53
İRFM 731 İR 52

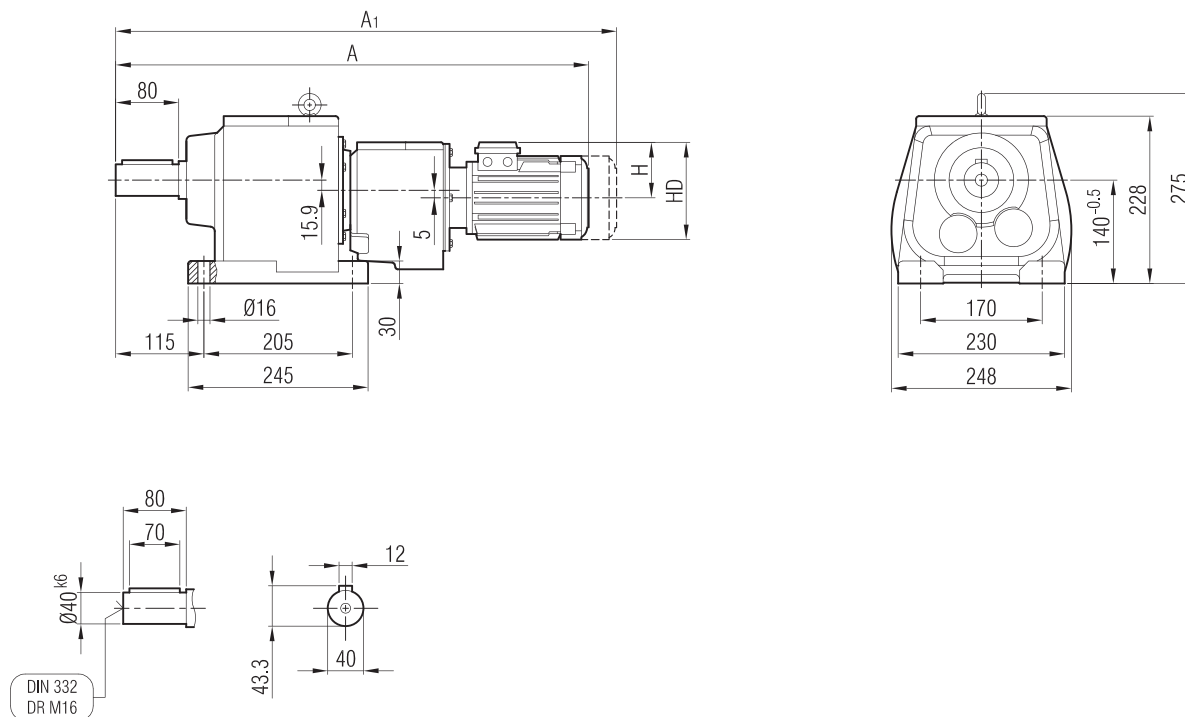


	56	63	71	80													
A		655	642	673													
A ₁		713	703	734													
H		99	111	118													
HD		162	182	198													
AC		123	132	158													

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MiB "A1" ist für Motoren mit Bremse



İRAM 72 İR 52
İRAM 73 İR 52



	56	63	71	80												
A		683	670	701												
A ₁		741	731	762												
H		99	111	118												
HD		162	182	198												
AC		123	132	158												

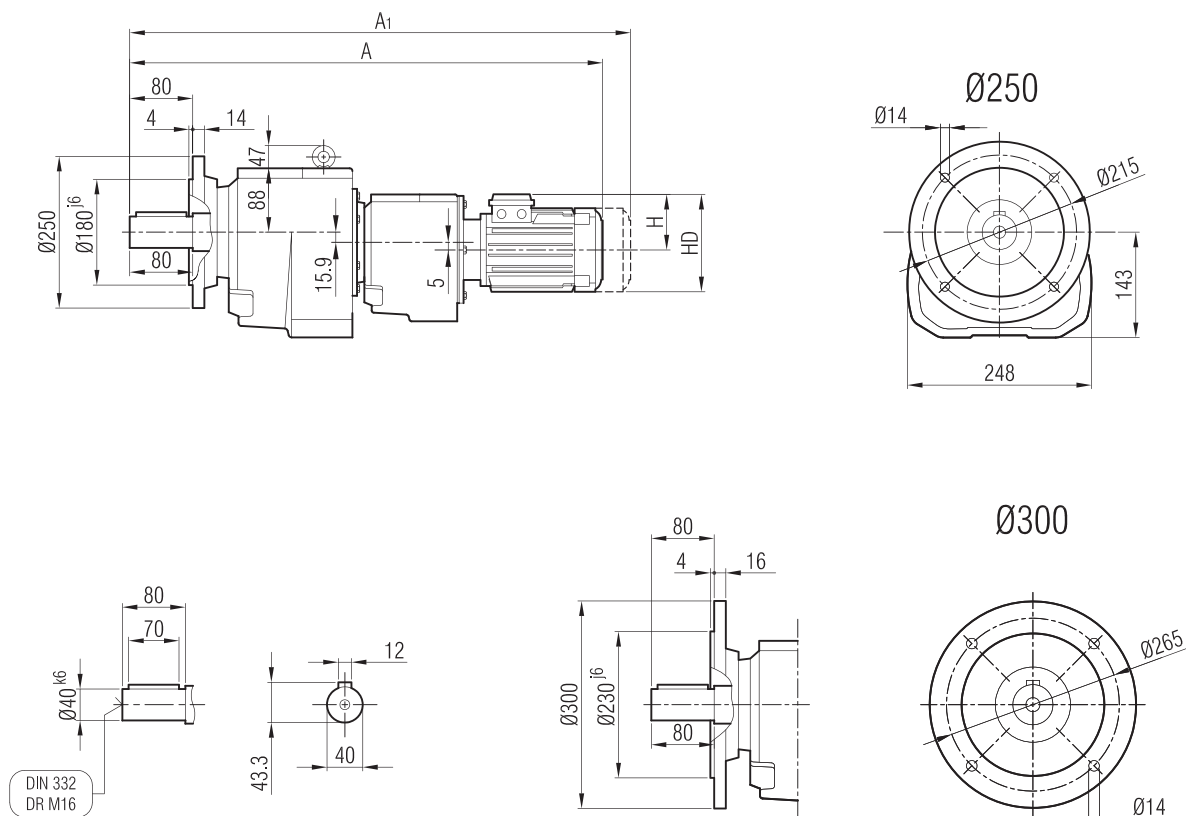
La cota "A1" se refiere a motores con freno

Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRFM 72 İR 52
İRFM 73 İR 52

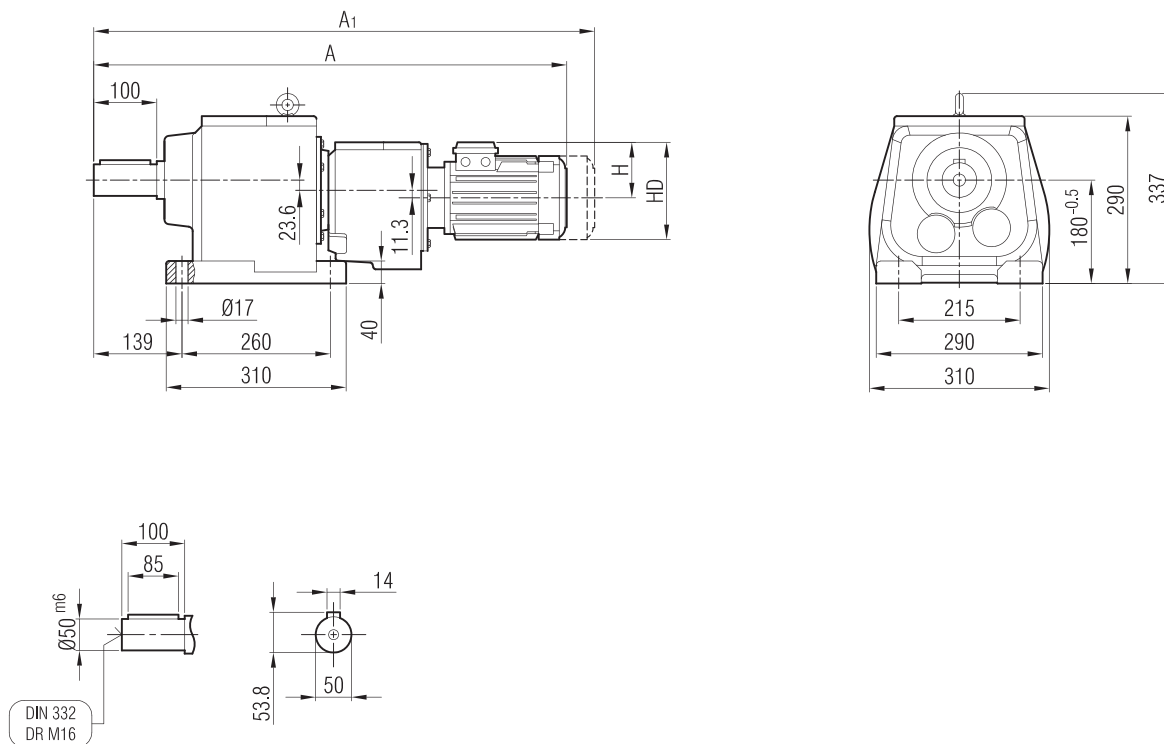


	56	63	71	80												
A		683	670	701												
A ₁		741	731	762												
H		99	111	118												
HD		162	182	198												
AC		123	132	158												

La cota "A1" se refiere a motores con freno

Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse

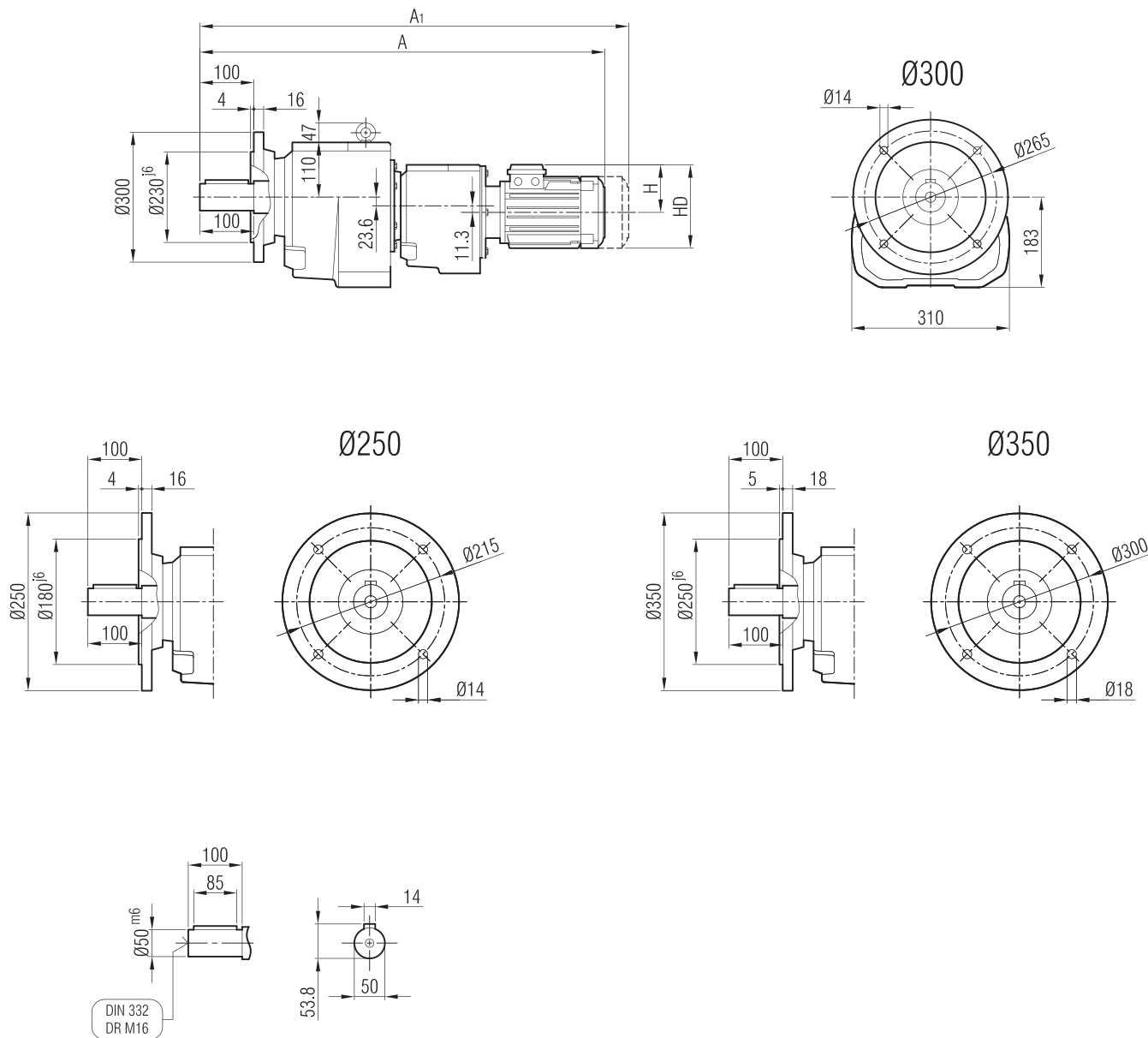

İRAM 82 İR 63
İRAM 83 İR 63


	56	63	71	80	90 S											
A		795	821	842	865											
A ₁		853	882	903	914											
H		99	111	118	132											
HD		162	182	198	222											
AC		123	132	158	193											

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MiB "A1" ist für Motoren mit Bremse



İRFM 82 İR 63
İRFM 83 İR 63



	56	63	71	80	90 S											
A		795	821	842	865											
A ₁		853	882	903	914											
H		99	111	118	132											
HD		162	182	198	222											
AC		123	132	158	193											

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MiB "A1" ist für Motoren mit Bremse

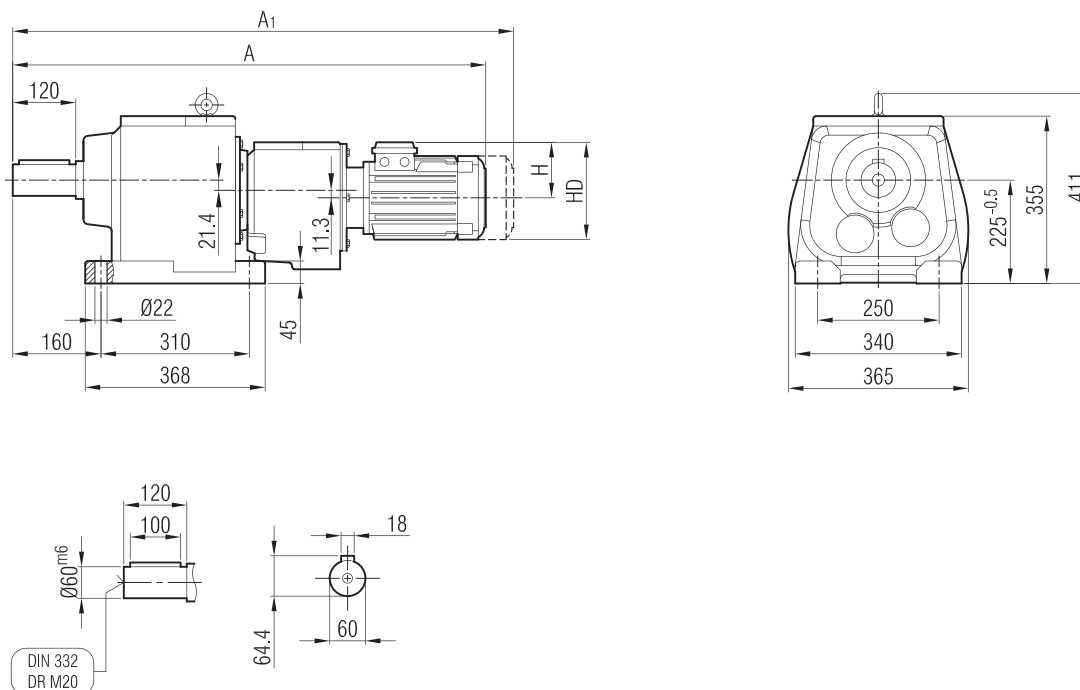


İRAM 92 İR 62

İRAM 92 İR 63

İRAM 93 İR 62

İRAM 93 İR 63



	56	63	71	80	90 S	90 L										
A		865	855	875	890	910										
A ₁		925	915	935	960	980										
H		99	111	118	132	132										
HD		162	182	198	222	222										
AC		123	132	158	193	193										

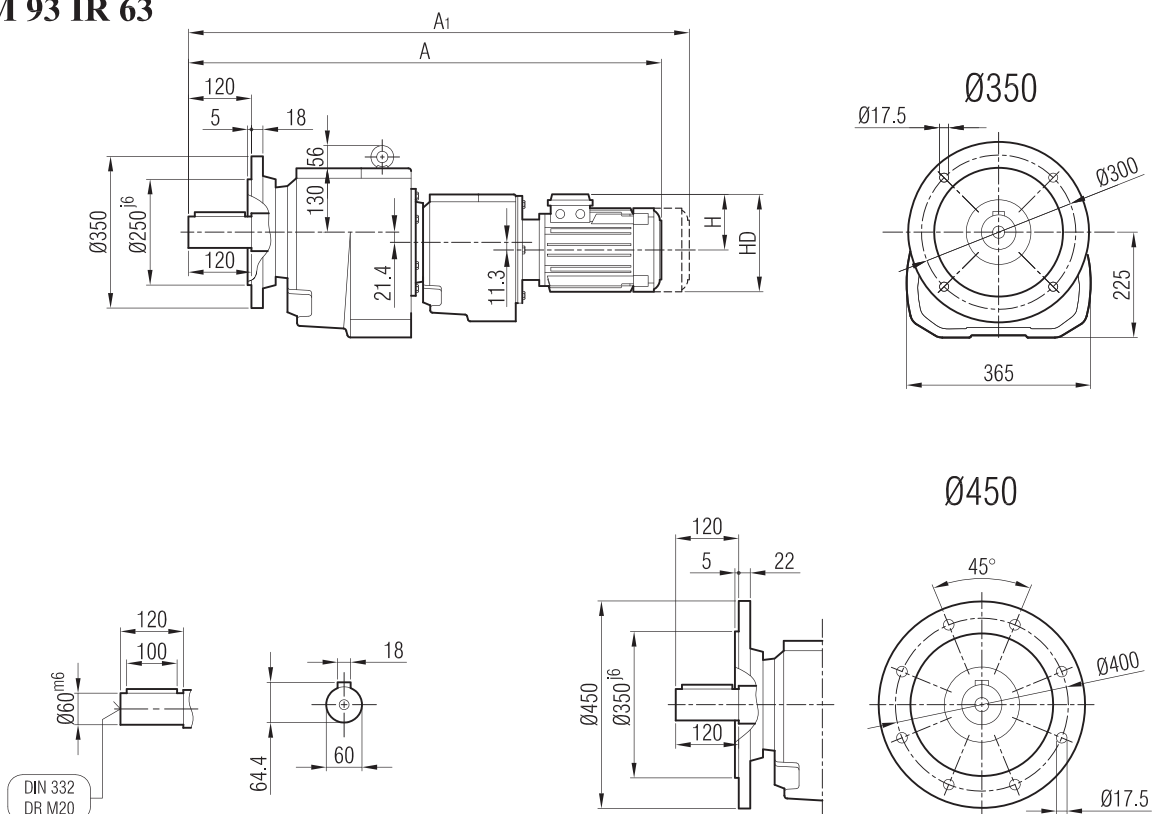
La cota "A1" se refiere a motores con freno

Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRFM 92 İR 62
İRFM 92 İR 63
İRFM 93 İR 62
İRFM 93 İR 63

[illegible]

La cota "A1" se refiere a motores con freno

Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse

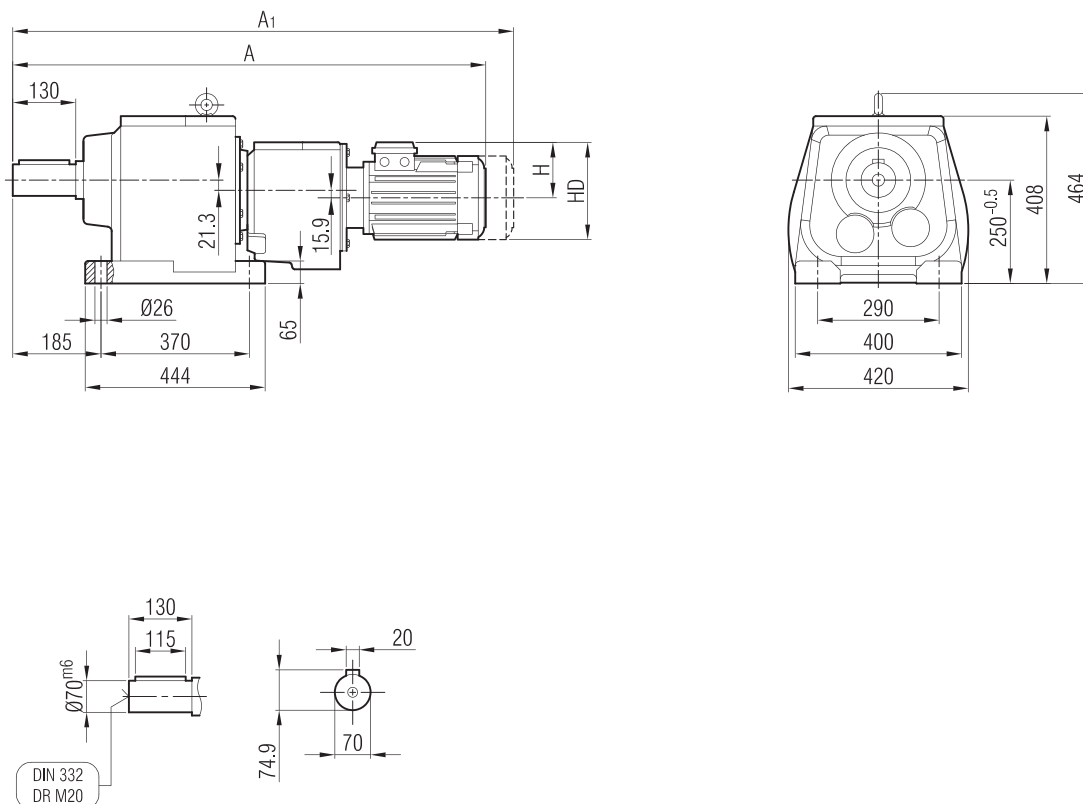


İRAM 102 İR 72

İRAM 102 İR 73

İRAM 103 İR 72

İRAM 103 İR 73



	56	63	71	80	90 S	90 L	100									
A			956	987	1000	1020	1054									
A ₁			1017	1048	1069	1089	1139									
H			111	118	132	132	141									
HD			182	198	222	222	241									
AC			132	158	193	193	217									

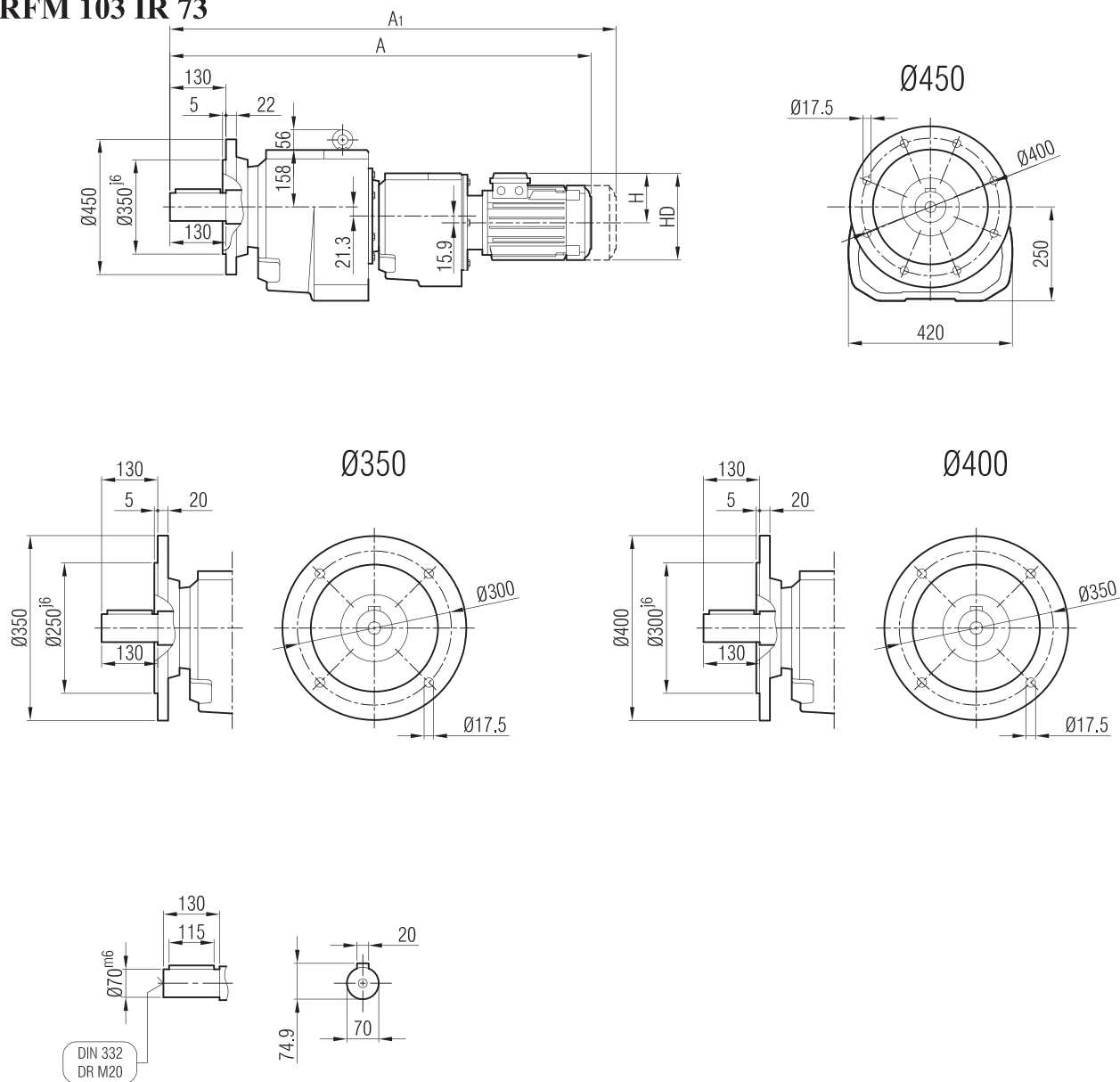
La cota "A1" se refiere a motores con freno

Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



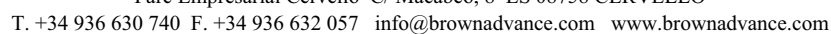
İRFM 102 İR 72
İRFM 102 İR 73
İRFM 103 İR 72
İRFM 103 İR 73



	56	63	71	80	90 S	90 L	100									
A			956	987	1000	1020	1054									
A ₁			1017	1048	1069	1089	1139									
H			111	118	132	132	141									
HD			182	198	222	222	241									
AC			132	158	193	193	217									

La cota "A1" se refiere a motores con freno
Dimension "A1" is for motors with brake
MiB "A1" ist für Motoren mit Bremse

İRAME 123 İR 73

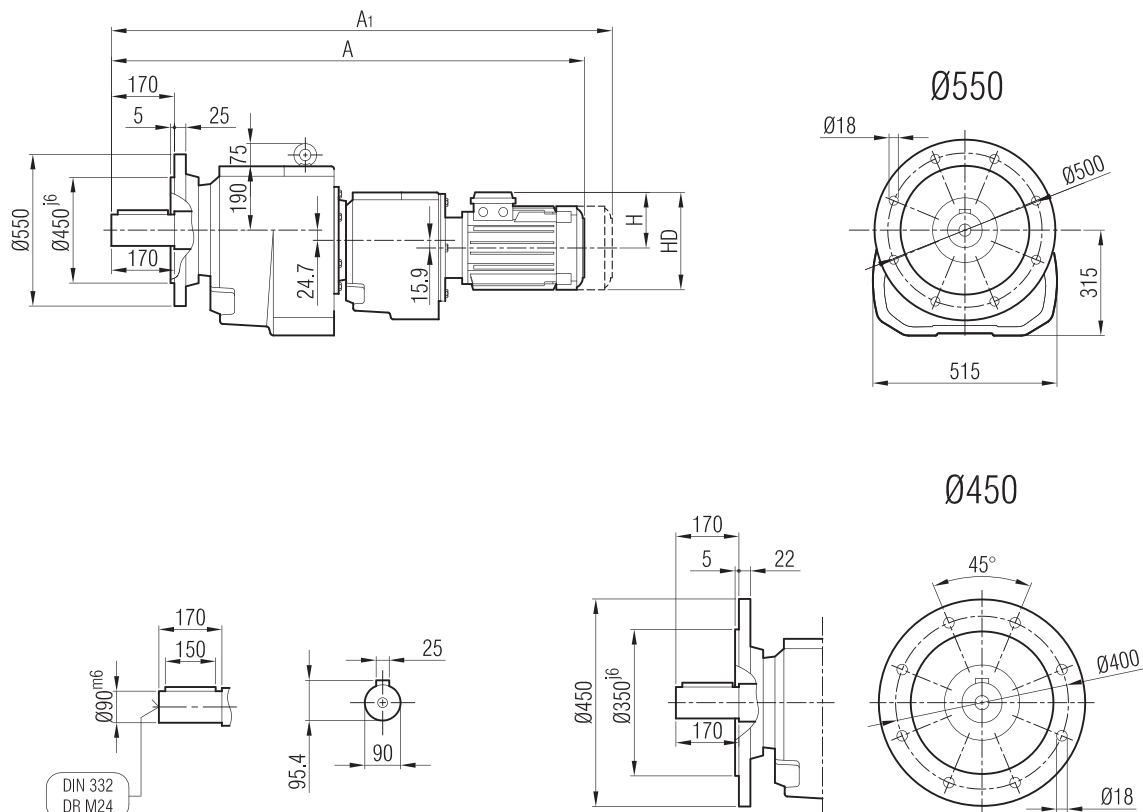




İRFM 122 İR 73

İRFM 123 İR 72

İRFM 123 İR 73

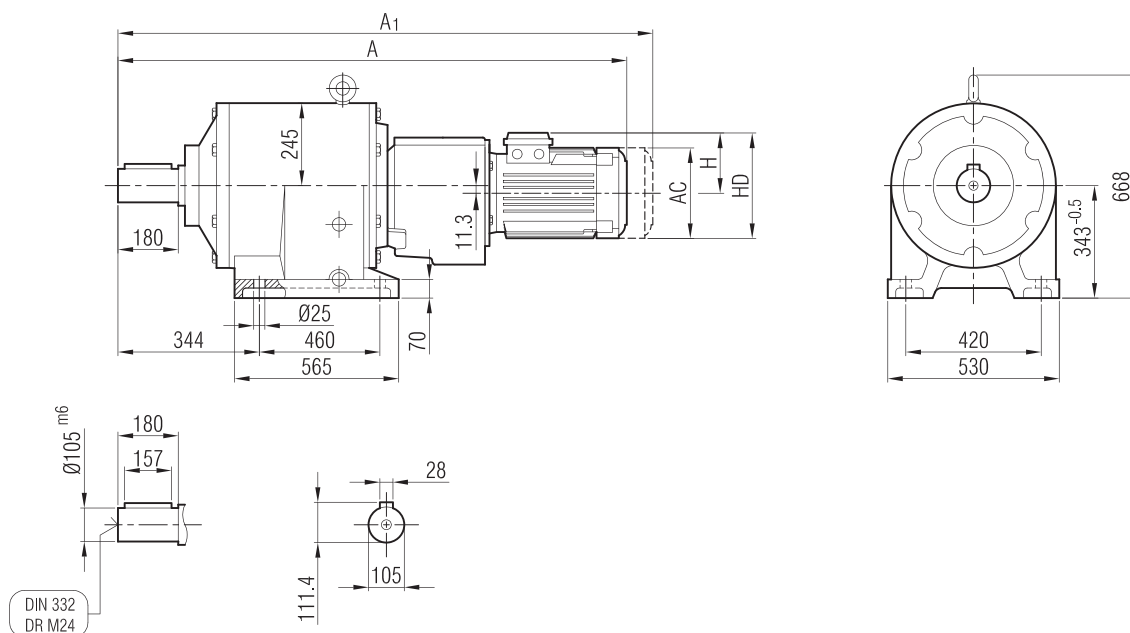
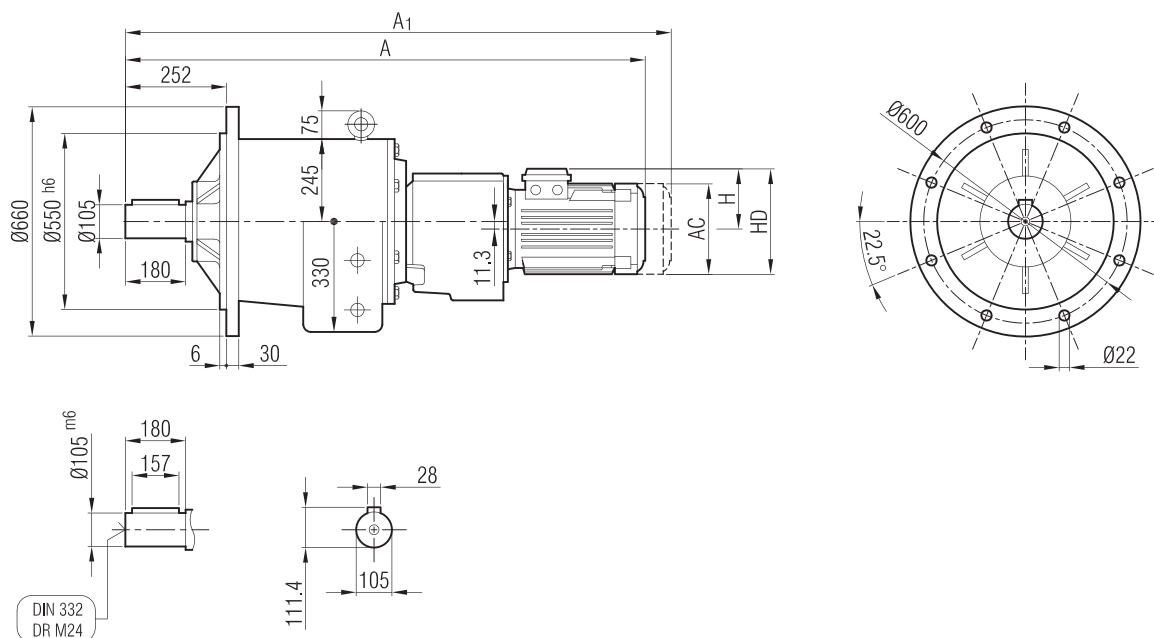


	56	63	71	80	90 S	90 L	100	112								
A			1108	1139	1163	1188	1230	1249								
A ₁			1181	1222	1248	1273	1332	1374								
H			111	118	132	132	141	149								
HD			182	198	222	222	241	261								
AC			132	158	193	193	217	232								

La cota "A1" se refiere a motores con freno

Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse

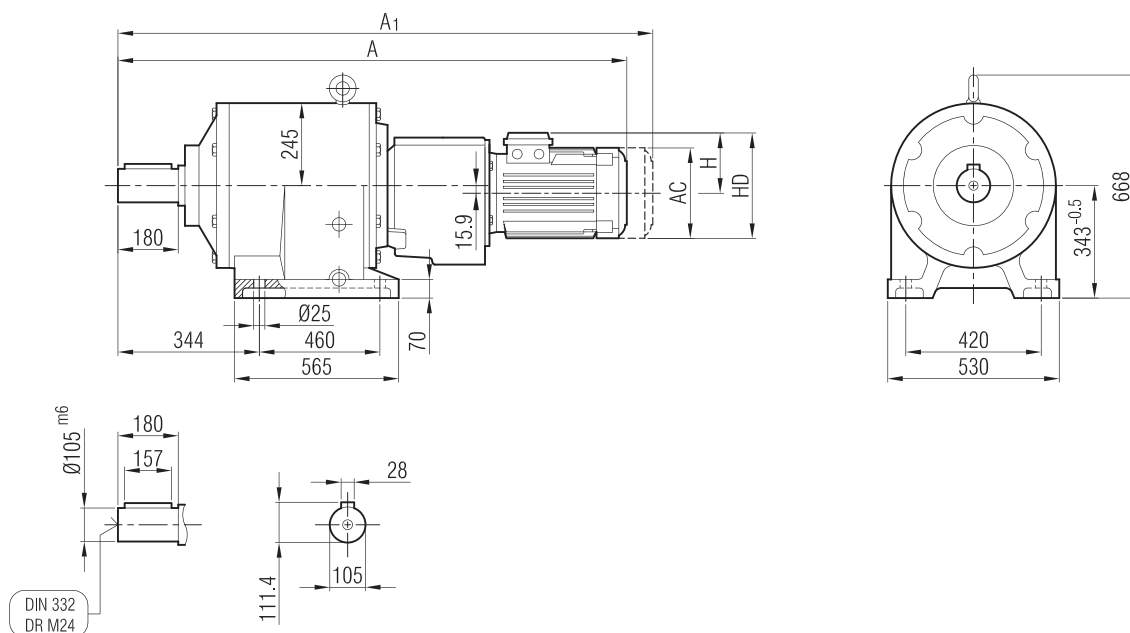
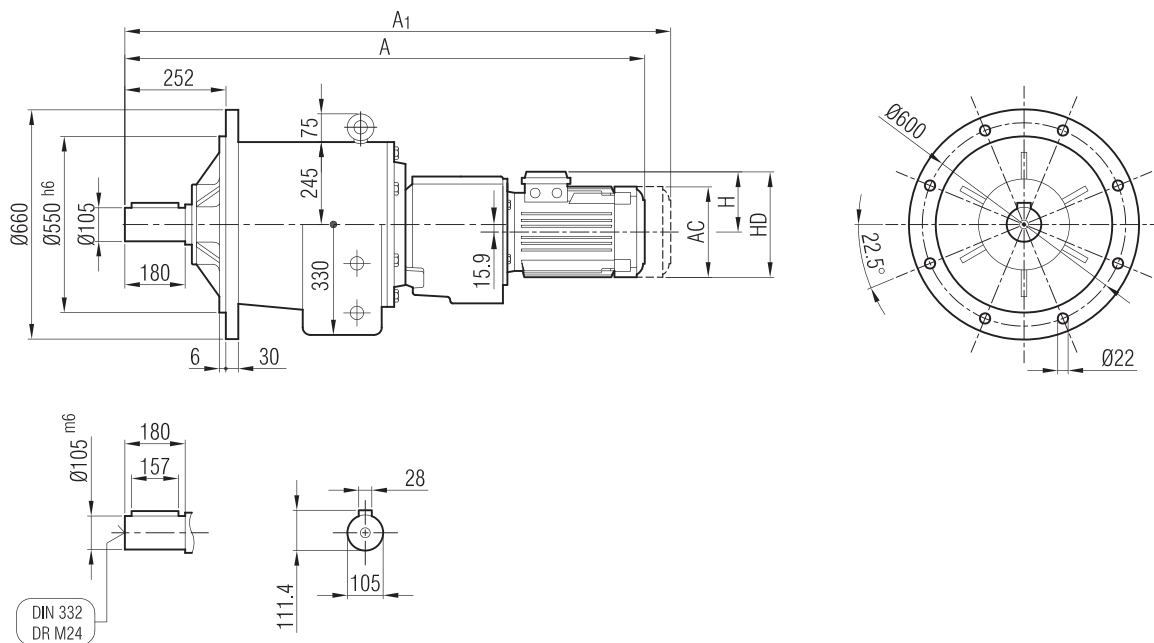

İRAM 151 İR 62
İRAM 151 İR 63

İRFM 151 İR 62
İRFM 151 İR 63


	56	63	71	80	90 S	90 L										
A				1194	1219	1244										
A ₁				1279	1302	1329										
H				118	132	132										
HD				198	222	222										
AC				158	193	193										

La cota "A1" se refiere a motores con freno

Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse

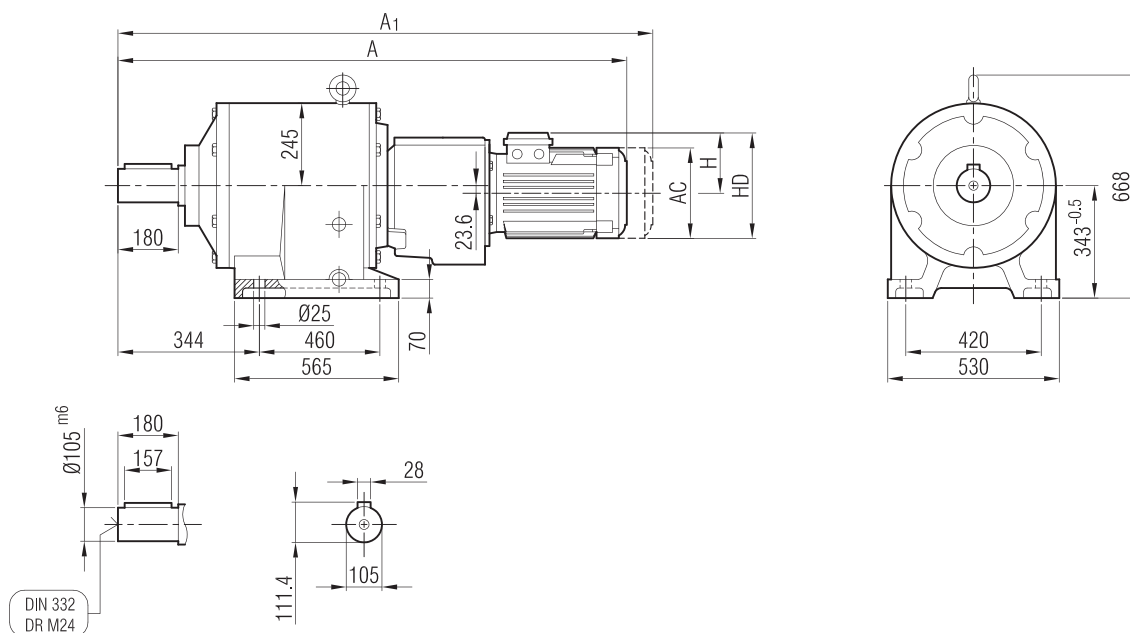
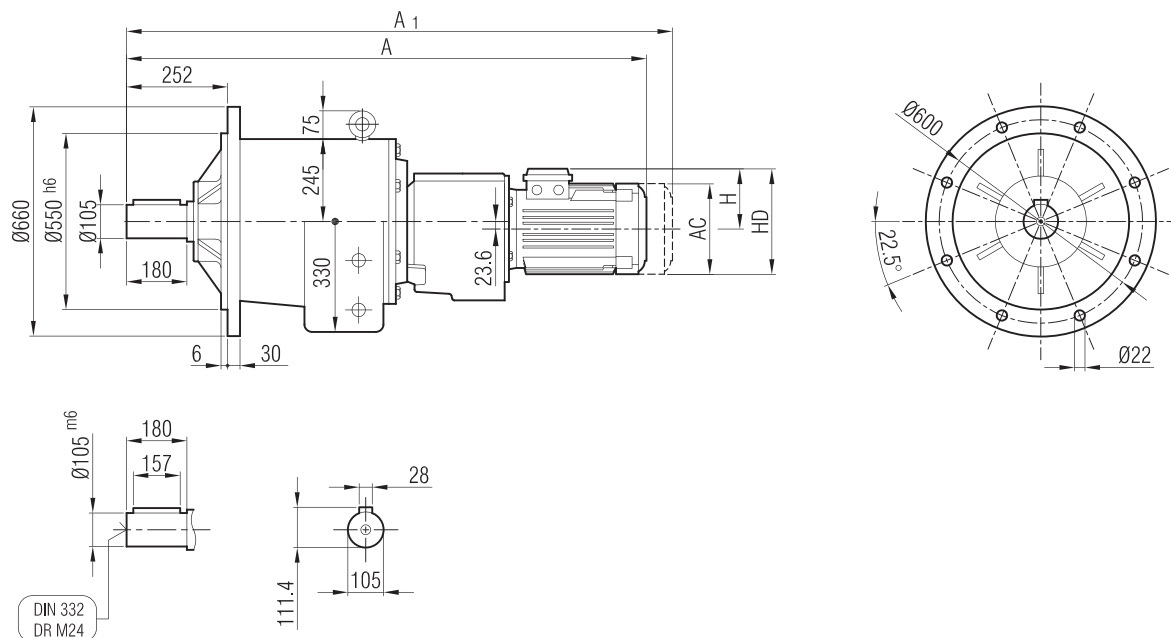

İRAM 151 İR 72
İRAM 151 İR 73

İRFM 151 İR 72
İRFM 151 İR 73


	56	63	71	80	90 S	90 L	100									
A							1320									
A ₁							1422									
H							141									
HD							241									
AC							217									

La cota "A1" se refiere a motores con freno

Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse

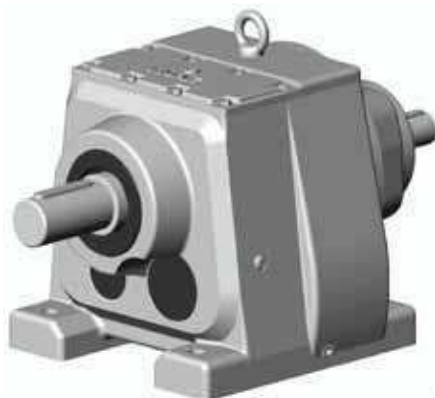

İRAM 151 İR 82
İRAM 151 İR 83

İRFM 151 İR 82
İRFM 151 İR 83


	56	63	71	80	90 S	90 L	100	112								
A								1390								
A ₁								1470								
H								149								
HD								261								
AC								232								

La cota "A1" se refiere a motores con freno

Dimension "A1" is for motors with brake

MiB "A1" ist für Motoren mit Bremse



İRA ...



İRAF ...



İRF ...



İRA ... - ...



İRF ... - ...



İRA ... - ...



n₁ = 2800 **r.p.m.**
r.p.m.

Factor de Servicio S _f = 1 Service Factor S _f = 1 Betriebsfaktor S _f = 1	P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}	Tipo Type Typ			kg
	Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial				
	Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads				
	Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkkräfte	Querkkräfte				
	[kW]	[r.p.m.]		[Nm]	[N]	[N]				
150 Nm	4,3	265	10,55	150	475	2500	IRA IRF 52 IRAF			
	4,8	296	9,47	150	475	2500				
	5,1	315	8,88	150	475	2500				
	5,7	351	7,97	150	475	2500				
	6,3	390	7,17	150	475	2500				
	7,0	432	6,47	150	475	2500				
	7,8	481	5,82	150	475	2500				
	8,6	533	5,25	150	475	2500				
	9,0	556	5,03	150	475	2500				
	10,0	620	4,51	150	475	2500				
	11,2	689	4,06	150	475	2500				
	12,4	763	3,66	150	475	2500				
	13,7	844	3,31	150	475	2500				
300 Nm	17,4	394	7,10	300	590	4500	IRA IRF 621 IRAF			
	19,1	432	6,48	300	590	4500				
	20,7	467	5,99	300	590	4500				
	21,7	490	5,72	300	590	4500				
	23,3	526	5,32	300	590	4500				
	24,5	553	5,06	300	590	4500				
	27,6	624	4,49	300	590	4500				
	31,1	702	3,99	300	590	4500				
	33,4	754	3,71	300	590	4500				
	37,7	852	3,28	300	590	4500				
410 Nm	17,4	394	7,10	410	590	4500	IRA IRF 62 IRAF			
	19,1	432	6,48	410	590	4500				
	20,7	467	5,99	410	590	4500				
	21,7	490	5,72	410	590	4500				
	23,3	526	5,32	410	590	4500				
	24,5	553	5,06	410	590	4500				
	27,6	624	4,49	410	590	4500				
	31,1	702	3,99	410	590	4500				
	33,4	754	3,71	410	590	4500				
	37,7	852	3,28	410	590	4500				
870 Nm	21,6	230	6,074	870	1200	9000	IRA IRF 72 IRAF			
	23,9	255	5,494	870	1200	9000				
	26,3	280	4,995	870	1200	9000				
	29,2	311	4,497	870	1200	9000				
	32,4	345	4,059	870	1200	9000				



n₁ = 1400 **r.p.m.**
r.p.m.

		P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}		
		Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial	Tipo	
Factor de Servicio Sf =1	Service Factor S _f =1	Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads	Type	
Betriebsfaktor	S _f =1	Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte	Typ	
		[kW]	[r.p.m]		[Nm]	[N]	[N]		kg
85 Nm		0,16	17	81,366	85	390	2100		
		0,19	20	70,053	85	390	2100		
		0,21	23	60,896	85	390	2100		
		0,24	26	53,331	85	390	2100		
		0,28	30	46,977	85	390	2100		
		0,31	33	41,849	85	390	2100		
		0,35	38	36,378	85	390	2100		
		0,41	44	31,859	85	390	2100		
		0,47	50	28,063	85	390	2100		
		0,49	53	26,193	85	390	2100		
		0,52	56	24,829	85	390	2000	IRA IRF 43 IRAF	223 9
		0,58	62	22,615	85	390	2000		224 10
		0,61	66	21,108	85	390	2000		225 10
		0,65	70	20,009	85	390	2000		
		0,70	75	18,593	85	390	2000		
		0,74	79	17,763	85	390	1850		
		0,79	85	16,450	85	390	1850		
		0,83	89	15,806	85	390	1850		
		0,89	96	14,604	85	390	1850		
		0,92	99	14,087	85	390	1800		
		1,0	108	12,995	85	390	1800		
		1,1	121	11,581	85	390	1800		
		1,1	125	11,242	85	390	800		
		1,3	142	9,845	85	390	800		
		1,5	161	8,672	85	390	800		
		1,7	182	7,673	85	390	750		
		1,9	204	6,872	85	390	750		
		2,1	230	6,080	85	390	750	IRA IRF 42 IRAF	223 9
		2,3	253	5,538	85	390	750		224 10
		2,4	259	5,398	85	390	750		225 10
		2,6	286	4,900	85	390	750		
		2,7	291	4,803	85	390	750		
		3,0	322	4,350	85	390	750		
		3,0	327	4,280	85	390	750		
		3,3	362	3,870	85	390	750		
		3,7	406	3,449	85	390	750		
150 Nm		0,003	0,16	8598	150	390	4250		
		0,003	0,19	7402	150	390	4250		
		0,004	0,22	6435	150	390	4250		
		0,004	0,26	5419	150	390	4250		
		0,005	0,3	4699	150	390	4250		
		0,006	0,34	4117	150	390	4250		
		0,007	0,42	3338	150	390	4250		
		0,008	0,47	2948	150	390	4250	IRA IRF	255 19
		0,009	0,52	2679	150	390	4250		256 20
		0,010	0,6	2346	150	390	4250		
		0,012	0,67	2085	150	390	4250		
		0,013	0,75	1863	150	390	4250		
		0,015	0,85	1641	150	390	4250		
		0,017	0,96	1462	150	390	4250		
		0,019	1,1	1271	150	390	4250		



n₁ = 1400 **r.p.m.**
r.p.m.

Factor de Servicio Sf =1 Service Factor S _f =1 Betriebsfaktor S _f =1	P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}	Tipo Type Typ			kg
	Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial				
	Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads				
	Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte				
	[kW]	[r.p.m]		[Nm]	[N]	[N]				
150 Nm	0,02	1	1398	150	390	4250	IRA IRF 52 IR 43			255 19 256 20
	0,02	1,2	1204	150	390	4250				
	0,02	1,3	1046	150	390	4250				
	0,03	1,5	917	150	390	4250				
	0,03	1,7	809	150	390	4250				
	0,03	2	709	150	390	4250				
	0,04	2,2	630	150	390	4250				
	0,04	2,5	555	150	390	4250				
	0,05	2,8	496	150	390	4250				
	0,02	1,2	1188	150	390	4250	IRA IRF 53 IR 42			255 19 256 20
	0,02	1,3	1040	150	390	4250				
	0,03	1,5	916	150	390	4250				
	0,03	1,6	878	150	390	4250				
	0,03	1,8	772	150	390	4250				
	0,04	2,1	669	150	390	4250				
	0,04	2,4	586	150	390	4250				
	0,05	2,7	519	150	390	4250				
	0,06	3,3	421	150	390	4250				
	0,06	3,7	377	150	390	4250				
	0,07	4,2	333	150	390	4250				
	0,08	4,8	294	150	390	4250				
	0,09	5,2	267	150	390	4250				
	0,10	5,9	238	150	390	4250				
	0,12	7,2	193	150	390	4250				
	0,14	8	173	150	390	4250				
	0,16	9,2	152	150	390	4250				
	0,17	10	138	150	390	4250				
	0,19	11	125	150	390	4250				
	0,22	13	111	150	390	4250				
	0,25	15	95	150	390	4250				
	0,12	7,2	193	150	390	4250	IRA IRF 52 IR 42			255 19 256 20
	0,14	8,2	169	150	390	4250				
	0,16	9,4	148	150	390	4250				
	0,18	11	131	150	390	4250				
	0,20	12	116	150	390	4250				
	0,22	13	104	150	390	4250				
	0,25	15	93	150	390	4250	IRA IRF 53 IRAF			226 11 227 11 228 13
	0,21	13	105,66	150	475	4250				
	0,26	16	88,98	150	475	4250				
	0,30	18	77,16	150	475	4250				
	0,35	21	67,60	150	475	4250				
	0,43	26	54,81	150	475	4250				
	0,48	29	48,41	150	475	4250				
	0,53	32	43,98	150	475	4250				
	0,59	36	39,09	150	475	4250				
	0,66	40	34,93	150	475	4250				
	0,74	45	31,33	150	475	4250				
	0,82	50	28,21	150	475	4250				
	0,90	55	25,46	150	475	4250				
	1,0	61	23,02	150	475	4250				
	1,1	64	21,88	150	475	4250				



n₁ = 1400 **r.p.m.**
r.p.m.

		P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}			
Factor de Servicio Sf =1		Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial	Tipo		
Service Factor	S _f =1	Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads	Type		
Betriebsfaktor	S _f =1	Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte	Typ		
		[kW]	[r.p.m]		[Nm]	[N]	[N]			kg
150 Nm	1,2	71	19,69	150	475	4250	İRA	53	226	11
	1,3	79	17,77	150	475	4250	İRF		227	11
	1,4	87	16,07	150	475	4250	İRAF		228	13
	1,3	82	17,18	150	475	3500	İRA İRF İRAF	52	226	10
	1,5	93	15,05	150	475	3500				
	1,7	105	13,29	150	475	3500				
	1,9	119	11,81	150	475	3500				
	2,2	133	10,55	150	475	3500				
	2,4	148	9,47	150	475	3500				
	2,6	158	8,88	150	475	3500				
	2,9	176	7,97	150	475	3500				
	3,2	195	7,17	150	475	3500				
	3,5	216	6,47	150	475	3500				
	3,9	241	5,82	150	475	3500				
	4,3	267	5,25	150	475	3500				
	4,5	279	5,03	150	475	3500				
	5,0	310	4,51	150	475	3500				
	5,6	345	4,06	150	475	3500				
	6,2	382	3,66	150	475	3500				
	6,9	423	3,31	150	475	3500				
	7,8	458	3,05	150	475	3500				
	8,7	482	2,90	150	475	3500				
	9,1	544	2,57	150	475	3500				
300 Nm	0,49	11	127,94	300	590	7000	İRA İRF İRAF	631	229	19
	0,52	12	119,40	300	590	7000				
	0,65	15	96,27	300	590	7000				
	0,70	16	87,81	300	590	7000				
	0,76	17	83,37	300	590	7000				
	0,90	20	70,96	300	590	7000				
	1,0	23	61,03	300	590	7000				
	1,2	27	51,65	300	590	7000				
	1,4	30	46,79	300	590	7000				
	1,5	33	42,55	300	590	7000				
	1,8	40	35,74	300	590	7000				
	2,1	47	29,85	300	590	7000				
	2,5	55	25,16	300	590	7000	İRA İRF İRAF	621	229	18
	2,9	65	21,50	300	590	7000				
	3,1	68	20,53	300	590	7000				
	3,5	77	18,18	300	590	7000				
	4,0	90	15,59	300	590	7000				
	4,5	101	13,81	300	590	7000				
	4,6	104	13,47	300	590	4500				
	5,1	115	12,20	300	590	4500				
	5,6	126	11,10	300	590	4500				
	6,2	140	10,07	300	590	4500				
	6,6	150	9,35	300	590	4500				
	7,3	165	8,51	300	590	4500				
	8,1	183	7,67	300	590	4500				
	8,7	197	7,10	300	590	4500				
	9,6	216	6,48	300	590	4500				
	10,4	234	5,99	300	590	4500				
	10,8	245	5,72	300	590	4500				
	11,6	263	5,32	300	590	4500				



n₁ = 1400 **r.p.m.**
r.p.m.

Factor de Servicio Sf =1 Service Factor S _f =1 Betriebsfaktor S _f =1	P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}	Tipo Type Typ			kg
	Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial				
	Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Over Loads	Over Loads				
	[kW]	[r.p.m.]		[Nm]	[N]	[N]				
300 Nm	12,3	277	5,06	300	590	4500	İRA İRF İRAF 621			
	13,8	312	4,49	300	590	4500				
	15,5	351	3,99	300	590	4500				
	16,7	377	3,71	300	590	4500				
	18,9	426	3,28	300	590	4500				
	21,2	480	2,91	300	590	4500				
	23,9	540	2,59	300	590	4500				
	25,4	573	2,44	300	590	4500				
410 Nm	0,01	0,10	13520	410	475	7000	İRA İRF 63 İR 53			
	0,01	0,11	12617	410	475	7000				
	0,01	0,12	11345	410	475	7000				
	0,01	0,13	10587	410	475	7000				
	0,01	0,14	9873	410	475	7000				
	0,01	0,15	9214	410	475	7000				
	0,01	0,19	7479	410	475	7000				
	0,01	0,21	6508	410	475	7000				
	0,01	0,22	6194	410	475	7000				
	0,01	0,23	5936	410	475	7000				
	0,01	0,24	5780	410	475	7000				
	0,01	0,25	5636	410	475	7000				
	0,01	0,29	4814	410	475	7000				
	0,01	0,30	4661	410	475	7000				
	0,01	0,31	4570	410	475	7000				
	0,02	0,33	4251	410	475	7000				
	0,02	0,35	4036	410	475	7000				
	0,02	0,36	3890	410	475	7000				
	0,02	0,41	3436	410	475	7000				
	0,02	0,47	2955	410	475	7000				
	0,02	0,52	2685	410	475	7000				
	0,03	0,56	2500	410	475	7000				
	0,03	0,62	2272	410	475	7000				
	0,03	0,62	2265	410	475	7000				
	0,03	0,68	2058	410	475	7000				
	0,04	0,75	1872	410	475	7000				
	0,03	0,64	2198	410	475	7000				
	0,03	0,68	2052	410	475	7000				
	0,04	0,78	1797	410	475	7000				
	0,04	0,82	1701	410	475	7000				
	0,04	0,85	1654	410	475	7000				
	0,04	0,88	1587	410	475	7000				
	0,04	0,93	1509	410	475	7000				
	0,05	0,98	1432	410	475	7000				
	0,05	1,1	1280	410	475	7000				
	0,06	1,2	1219	410	475	7000				
	0,06	1,2	1167	410	475	7000				
	0,06	1,3	1108	410	475	7000				
	0,06	1,3	1049	410	475	7000				
	0,07	1,5	943	410	475	7000				
	0,07	1,6	887	410	475	7000				
	0,08	1,7	811	410	475	7000				
	0,08	1,7	804	410	475	7000				
	0,09	1,9	731	410	475	7000				
	0,09	2	686	410	475	7000				
	0,03	0,64	2198	410	475	7000	İRA İRF 63 İR 52			
	0,03	0,68	2052	410	475	7000				
	0,04	0,78	1797	410	475	7000				
	0,04	0,82	1701	410	475	7000				
	0,04	0,85	1654	410	475	7000				
	0,04	0,88	1587	410	475	7000				
	0,04	0,93	1509	410	475	7000				
	0,05	0,98	1432	410	475	7000				
	0,05	1,1	1280	410	475	7000				
	0,06	1,2	1219	410	475	7000				
	0,06	1,2	1167	410	475	7000				
	0,06	1,3	1108	410	475	7000				



n₁ = 1400 **r.p.m.**
r.p.m.

Factor de Servicio Sf =1 Service Factor S _f =1 Betriebsfaktor S _f =1	P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}	Tipo Type Typ			kg
	Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial				
	Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads				
	Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte				
	[kW]	[r.p.m]		[Nm]	[N]	[N]				
410 Nm	0,10	2,2	622	410	475	7000	IRA IRF 63 iR 52			
	0,11	2,3	614	410	475	7000				
	0,12	2,5	566	410	475	7000				
	0,12	2,6	538	410	475	7000				
	0,13	2,9	475	410	475	7000				
	0,14	3,1	449	410	475	7000				
	0,16	3,5	397	410	475	7000				
	0,17	3,7	379	410	475	7000				
	0,19	4,1	335	410	475	7000				
	0,23	4,9	286	410	475	7000				
	0,24	5,1	273	410	475	7000				
	0,27	5,8	242	410	475	7000				
	0,30	6,5	215	410	475	7000				
	0,34	7,3	190	410	475	7000				
	0,27	6	232	410	475	7000				
	0,30	6,6	210	410	475	7000				
	0,33	7,3	191	410	475	7000				
	0,36	7,8	179	410	475	7000				
	0,36	8	173	410	475	7000				
	0,39	8,6	162	410	475	7000				
	0,40	8,7	161	410	475	7000				
	0,43	9,5	148	410	475	7000				
	0,43	9,5	146	410	475	7000				
	0,48	11	134	410	475	7000				
	0,49	11	127,94	410	590	7000	IRA IRF IRAF 63			
	0,52	12	119,40	410	590	7000				
	0,65	15	96,27	410	590	7000				
	0,70	16	87,81	410	590	7000				
	0,76	17	83,37	410	590	7000				
	0,90	20	70,96	410	590	7000				
	1,0	23	61,03	410	590	7000				
	1,2	27	51,65	410	590	7000				
	1,4	30	46,79	410	590	7000				
	1,5	33	42,55	410	590	7000				
	1,8	40	35,74	410	590	7000				
	2,1	47	29,85	410	590	7000				
	2,5	55	25,16	410	590	7000				
	2,9	65	21,50	410	590	7000				
	3,1	68	20,53	410	590	7000				
	3,5	77	18,18	410	590	7000				
	4,0	90	15,59	410	590	7000				
	4,5	101	13,81	410	590	7000				
	4,1	93	15,13	410	590	4500	IRA IRF IRAF 62			
	4,6	104	13,47	410	590	4500				
	5,1	115	12,20	410	590	4500				
	5,6	126	11,10	410	590	4500				
	6,2	140	10,07	410	590	4500				
	6,6	150	9,35	410	590	4500				
	7,3	165	8,51	410	590	4500				
	8,1	183	7,67	410	590	4500				
	8,7	197	7,10	410	590	4500				
	9,6	216	6,48	410	590	4500				

r.p.m.
r.p.m

r.p.m.	
<u>r.p.m</u>	
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Parc Empresarial Cervelló C/ Macabeo, 8 ES 08758 CERVELLÓ
T. +34 936 630 740 F. +34 936 632 057 info@brownadvance.com www.brownadvance.com



n₁ = 1400 **r.p.m.**
r.p.m.

Factor de Servicio Sf =1 Service Factor S _f =1 Betriebsfaktor S _f =1	P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}	Tipo Type Typ			kg
	Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial				
	Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads				
	Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte				
	[kW]	[r.p.m]		[Nm]	[N]	[N]				
600 Nm	2,8	44	31,622	600	1000	7500	İRA İRF 721 İRAF	235	38	
	3,2	50	28,055	600	1000	7500				
	3,8	58	24,254	600	1000	7500				
	4,2	65	21,388	600	1000	7500				
	4,8	74	19,021	600	1000	7250				
	5,3	82	17,033	600	1000	7250				
	5,9	91	15,339	600	1000	7250				
	6,6	102	13,731	600	1000	7250				
	7,4	115	12,126	600	1000	7250				
	8,1	125	11,172	600	1000	7250				
	9,2	142	9,866	600	1000	7000				
	10,4	160	8,769	600	1000	7000				
	11,6	179	7,834	600	1000	7000				
	12,9	199	7,029	600	1000	7000				
	14,3	221	6,327	600	1000	7000				
	15,9	245	5,710	600	1000	7000				
	17,5	271	5,164	600	1000	7000				
	19,4	299	4,677	600	1000	7000				
	21,4	330	4,240	600	1000	7000				
	23,8	367	3,809	600	1000	7000				
	26,4	407	3,438	600	1000	7000				
	29,1	450	3,109	600	1000	7000				
	32,2	497	2,816	600	1000	7000				
	35,5	548	2,553	600	1000	7000				
870 Nm	0,01	0,08	16321	870	475	12100	İRA İRF 73 İR 53	261	50	
	0,01	0,10	14110	870	475	12100				
	0,01	0,10	13744	870	475	12100				
	0,01	0,12	11919	870	475	12100				
	0,01	0,13	10947	870	475	12100				
	0,01	0,14	10304	870	475	12100				
	0,01	0,15	9654	870	475	12100				
	0,02	0,16	8586	870	475	12100				
	0,02	0,18	7688	870	475	12100				
	0,02	0,21	6474	870	475	12100				
	0,02	0,24	5674	870	475	12100				
	0,03	0,26	5287	870	475	12100				
	0,03	0,31	4423	870	475	12100				
	0,03	0,35	3989	870	475	12100				
	0,04	0,40	3522	870	475	12100				
	0,04	0,44	3153	870	475	12100				
	0,05	0,50	2817	870	475	12100				
	0,05	0,55	2527	870	475	12100				
	0,07	0,66	2106	870	475	12100				
	0,07	0,69	2017	870	475	12100				
	0,07	0,74	1882	870	475	12100				
	0,08	0,82	1703	870	475	12100				
	0,09	0,92	1520	870	475	12100				
	0,10	0,99	1410	870	475	12100	İRA İRF 73 İR 52	261	49	
	0,11	1,1	1265	870	475	12100				
	0,12	1,2	1187	870	475	12100				
	0,14	1,4	981	870	475	12100				
	0,15	1,5	921	870	475	12100				
	0,16	1,6	865	870	475	12100				



n₁ = 1400 **r.p.m.**
r.p.m.

Factor de Servicio Sf =1 Service Factor S _f =1 Betriebsfaktor S _f =1	P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}	Tipo Type Typ		
	Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial			
	Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads			
	Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte			
	[kW]	[r.p.m]		[Nm]	[N]	[N]			kg
870 Nm	0,17	1,7	812	870	475	12100	IRA IRF 73 IR 52	261	49
	0,18	1,8	769	870	475	12100			
	0,19	1,9	722	870	475	12100			
	0,22	2,2	648	870	475	12100			
	0,24	2,4	576	870	475	12100			
	0,28	2,9	473	870	475	12100	IRA IRF 72 IR 53	261	49
	0,32	3,3	420	870	475	12100			
	0,42	4,3	326	870	475	12100			
	0,47	4,8	291	870	475	12100			
	0,52	5,3	261	870	475	12100			
	0,86	9	154,461	870	1200	12100	IRA IRF 73 IRAF	238	41
	1,1	11	133,534	870	1200	12100			
	1,3	14	103,604	870	1200	12100			
	1,4	15	91,364	870	1200	12100			
	1,6	17	81,252	870	1200	12100			
	1,8	19	72,759	870	1200	12100			
	2,0	21	65,524	870	1200	12100			
	2,2	24	59,416	870	1200	12100			
	2,6	27	52,470	870	1200	12100			
	2,9	30	46,636	870	1200	12100			
	3,2	34	41,667	870	1200	12100			
	3,6	38	37,382	870	1200	12100			
	4,3	45	31,160	870	1200	12100			
	4,8	50	27,840	870	1200	12100			
	5,3	56	24,977	870	1200	12100			
	5,9	62	224,484	870	1200	12100			
	6,6	69	20,293	870	1200	12100			
	7,3	76	18,352	870	1200	12100			
	8,2	84	16,622	870	1200	12100			
	8,8	93	15,068	870	1200	12100			
	9,72	104	13,526	870	1200	9000	IRA IRF 72 IRAF	238	39
	10,9	117	12,022	870	1200	9000			
	12,2	130	10,740	870	1200	9000			
	14,1	150	9,337	870	1200	9000			
	15,8	168	8,333	870	1200	9000			
	17,6	187	7,476	870	1200	9000			
	19,5	208	6,730	870	1200	9000			
	21,6	230	6,074	870	1200	9000			
	23,4	255	5,494	870	1200	9000			
	26,3	280	4,995	870	1200	9000			
	29,2	311	4,497	870	1200	9000			
	32,4	345	4,059	870	1200	9000			
	35,8	381	3,670	870	1200	9000			
	39,5	421	3,324	870	1200	9000			
	43,7	465	3,014	870	1200	9000			
	48,1	512	2,733	870	1200	9000			
	51,1	544	2,571	870	1200	9000			
1500 Nm	0,01	0,07	18231	1500	590	17000	IRA IRF 83 IR 63	263	101
	0,02	0,09	15217	1500	590	17000			
	0,02	0,10	13984	1500	590	17000			
	0,02	0,11	12302	1500	590	17500			
	0,02	0,13	10968	1500	590	17500			
	0,02	0,13	10968	1500	590	17500			



n₁ = 1400 **r.p.m.**
r.p.m.

		P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}		
Factor de Servicio Sf =1		Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial	Tipo	
Service Factor	S _f =1	Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads	Type	
Betriebsfaktor	S _f =1	Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkkräfte	Querkkräfte	Typ	
		[kW]	[r.p.m]		[Nm]	[N]	[N]		kg
1500 Nm	0,03	0,16	8893	1500	590	17500			
	0,03	0,18	7902	1500	590	17500			
	0,03	0,20	7092	1500	590	17500			
	0,04	0,22	6393	1500	590	17500			
	0,04	0,26	5484	1500	590	17500			
	0,05	0,28	4922	1500	590	17500			
	0,06	0,32	4437	1500	590	17500			
	0,06	0,35	4015	1500	590	17500			
	0,07	0,39	3593	1500	590	17500			
	0,07	0,43	3239	1500	590	17500			
	0,08	0,48	2930	1500	590	17500			
	0,09	0,53	2659	1500	590	17500			
	0,10	0,58	2419	1500	590	17500			
	0,11	0,63	2205	1500	590	17500			
	0,12	0,70	2013	1500	590	17500			
	0,13	0,76	1840	1500	590	17500			
	0,16	0,95	1481	1500	590	17500			
	0,17	1,00	1353	1500	590	17500			
	0,13	0,79	1778	1500	590	17500			
	0,15	0,89	1580	1500	590	17500			
	0,17	0,99	1418	1500	590	17500			
	0,19	1,1	1308	1500	590	17500			
	0,19	1,1	1279	1500	590	17500			
	0,20	1,2	1162	1500	590	17500			
	0,20	1,2	1157	1500	590	17500			
	0,22	1,3	1050	1500	590	17500			
	0,22	1,3	1043	1500	590	17500			
	0,25	1,5	940	1500	590	17500			
	0,27	1,6	850	1500	590	17500			
	0,30	1,8	772	1500	590	17500			
	0,32	1,9	723	1500	590	17500			
	0,36	2,1	653	1500	590	17500			
	0,41	2,4	590	1500	590	17500			
	0,44	2,6	535	1500	590	17500			
	0,49	2,9	487	1500	590	17500			
	0,58	3,4	405	1500	590	17500			
	0,66	3,9	359	1500	590	17500			
	0,75	4,4	314	1500	590	17500			
	0,80	4,7	295	1500	590	17500			
	0,88	5,2	265	1500	590	17500			
	0,98	5,8	240	1500	590	17500			
	0,90	5,5	250,50	1500	1550	17500			
	1,0	6,3	221,16	1500	1550	17500			
	1,1	6,7	208,58	1500	1550	17500			
	1,2	7,5	186,71	1500	1550	17500			
	1,4	8,3	168,34	1500	1550	17500			
	1,5	9,1	152,68	1500	1550	17500			
	1,6	10	139,19	1500	1550	17500			
	1,8	11	127,44	1500	1550	17500			
	2,0	12	117,12	1500	1550	17500			
	2,2	14	103,03	1500	1550	17500			
	2,5	15	91,85	1500	1550	17500			
	2,8	17	82,47	1500	1550	17500			
	0,90	5,5	250,50	1500	1550	17500			
	1,0	6,3	221,16	1500	1550	17500			
	1,1	6,7	208,58	1500	1550	17500			
	1,2	7,5	186,71	1500	1550	17500			
	1,4	8,3	168,34	1500	1550	17500			
	1,5	9,1	152,68	1500	1550	17500			
	1,6	10	139,19	1500	1550	17500			
	1,8	11	127,44	1500	1550	17500			
	2,0	12	117,12	1500	1550	17500			
	2,2	14	103,03	1500	1550	17500			
	2,5	15	91,85	1500	1550	17500			
	2,8	17	82,47	1500	1550	17500			
	0,90	5,5	250,50	1500	1550	17500			
	1,0	6,3	221,16	1500	1550	17500			
	1,1	6,7	208,58	1500	1550	17500			
	1,2	7,5	186,71	1500	1550	17500			
	1,4	8,3	168,34	1500	1550	17500			
	1,5	9,1	152,68	1500	1550	17500			
	1,6	10	139,19	1500	1550	17500			
	1,8	11	127,44	1500	1550	17500			
	2,0	12	117,12	1500	1550	17500			
	2,2	14	103,03	1500	1550	17500			
	2,5	15	91,85	1500	1550	17500			
	2,8	17	82,47	1500	1550	17500			



n₁ = 1400 **r.p.m.**
r.p.m.

Factor de Servicio Sf =1 Service Factor S _f =1 Betriebsfaktor S _f =1	P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}	Tipo Type Typ			kg
	Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial				
	Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads				
	Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte				
	[kW]	[r.p.m]		[Nm]	[N]	[N]				
1500 Nm	3,1	19	74,47	1500	1550	17500	IRA IRF 83 IRAF			
	3,5	21	66,18	1500	1550	17500				
	4,0	24	59,39	1500	1550	17500				
	4,3	26	53,54	1500	1550	17500				
	4,8	29	48,44	1500	1550	17500				
	5,1	31	45,93	1500	1550	17500				
	5,8	35	41,22	1500	1550	17500				
	6,4	39	37,16	1500	1550	17500				
	7,1	43	33,62	1500	1550	17500				
	7,7	47	30,08	1500	1550	17500				
	8,6	52	27,12	1500	1550	17500				
	9,4	57	24,54	1500	1550	17500				
	10,4	63	22,27	1500	1550	17500				
	11,4	69	20,26	1500	1550	17500				
	12,5	76	18,47	1500	1550	17500				
	13,7	83	16,86	1500	1550	17500				
	15,0	91	15,41	1500	1550	17500				
	15,2	94	14,89	1500	1550	13000				
	17,2	106	13,23	1500	1550	13000				
	19,1	118	11,87	1500	1550	13000				
	21,2	131	10,70	1500	1550	13000				
	23,5	145	9,68	1500	1550	13000				
	25,8	159	8,79	1500	1550	13000				
	28,3	175	8,24	1500	1550	13000				
	30,4	188	7,43	1500	1550	13000				
	34,8	215	6,72	1500	1550	13000				
	38,4	237	6,10	1500	1550	13000				
	42,1	260	5,55	1500	1550	13000				
	44,9	277	5,06	1500	1550	13000				
	49,1	303	4,62	1500	1550	13000				
	53,8	332	4,22	1500	1550	13000				
	56,0	346	4,05	1500	1550	13000				
	61,5	380	3,69	1500	1550	13000				
	67,5	417	3,37	1500	1550	13000				
	73,8	456	3,08	1500	1550	13000				
	77,4	478	2,93	1500	1550	13000				
	84,7	523	2,67	1500	1550	13000				
	95,5	590	2,37	1500	1550	13000				
2800 Nm	0,02	0,06	22852	2800	590	25000	IRA IRF 93 IR 63			
	0,02	0,07	20623	2800	590	25000				
	0,03	0,08	18725	2800	590	25000				
	0,03	0,08	18426	2800	590	25000				
	0,03	0,08	17911	2800	590	25000				
	0,03	0,08	16707	2800	590	25000				
	0,03	0,08	16629	2800	590	25000				
	0,03	0,09	15663	2800	590	25000				
	0,03	0,09	15160	2800	590	25000				
	0,03	0,09	15098	2800	590	25000				
	0,03	0,10	14679	2800	590	25000				
	0,03	0,10	14410	2800	590	25000				
	0,03	0,10	13583	2800	590	25000				
	0,04	0,11	13137	2800	590	25000				
	0,04	0,11	13037	2800	590	25000				
	0,02	0,06	22852	2800	590	25000				
	0,02	0,07	20623	2800	590	25000				
	0,03	0,08	18725	2800	590	25000				
	0,03	0,08	18426	2800	590	25000				
	0,03	0,08	17911	2800	590	25000				
	0,03	0,08	16707	2800	590	25000				
	0,03	0,08	16629	2800	590	25000				
	0,03	0,09	15663	2800	590	25000				
	0,03	0,09	15160	2800	590	25000				
	0,03	0,09	15098	2800	590	25000				
	0,03	0,10	14679	2800	590	25000				
	0,03	0,10	14410	2800	590	25000				
	0,03	0,10	13583	2800	590	25000				
	0,04	0,11	13137	2800	590	25000				
	0,04	0,11	13037	2800	590	25000				



n₁ = 1400 **r.p.m.**
r.p.m.

		P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}		
Factor de Servicio Sf =1		Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial	Tipo	
Service Factor	S _f =1	Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads	Type	
Betriebsfaktor	S _f =1	Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte	Typ	 
		[kW]	[r.p.m]		[Nm]	[N]	[N]		kg
2800 Nm		0,04	0,11	12258	2800	590	25000	IRA IRF 93 IR 63	265 173 266 174
		0,04	0,12	11681	2800	590	25000		
		0,04	0,12	11577	2800	590	25000		
		0,04	0,12	11130	2800	590	25000		
		0,04	0,13	10542	2800	590	25000		
		0,04	0,14	10288	2800	590	25000		
		0,05	0,15	9565	2800	590	25000		
		0,05	0,15	9309	2800	590	25000		
		0,05	0,15	9206	2800	590	25000		
		0,05	0,16	8565	2800	590	25000		
		0,05	0,17	8198	2800	590	25000		
		0,05	0,17	8006	2800	590	25000		
		0,05	0,18	7808	2800	590	25000		
		0,06	0,19	7366	2800	590	25000		
		0,06	0,19	7224	2800	590	25000		
		0,06	0,20	6881	2800	590	25000		
		0,07	0,21	6715	2800	590	25000		
		0,07	0,22	6420	2800	590	25000		
		0,07	0,22	6115	2800	590	25000		
		0,08	0,24	5918	2800	590	25000		
		0,08	0,24	5745	2800	590	25000		
		0,08	0,25	5472	2800	590	25000		
		0,09	0,27	5259	2800	590	25000		
		0,09	0,27	5169	2800	590	25000		
		0,09	0,29	4872	2800	590	25000		
		0,10	0,30	4706	2800	590	25000		
		0,10	0,30	4673	2800	590	25000		
		0,11	0,33	4294	2800	590	25000		
		0,11	0,33	4241	2800	590	25000		
		0,11	0,33	4190	2800	590	25000		
		0,12	0,36	3862	2800	590	25000		
		0,12	0,38	3693	2800	590	25000		
		0,13	0,40	3525	2800	590	25000		
		0,14	0,43	3225	2800	590	25000		
		0,15	0,47	2956	2800	590	25000		
		0,11	0,35	3954	2800	590	25000	IRA IRF 93 IR 62	265 171 266 172
		0,12	0,38	3688	2800	590	25000		
		0,12	0,39	3582	2800	590	25000		
		0,13	0,42	3341	2800	590	25000		
		0,14	0,43	3241	2800	590	25000		
		0,15	0,48	2936	2800	590	25000		
		0,15	0,48	2878	2800	590	25000		
		0,17	0,54	2607	2800	590	25000		
		0,19	0,60	2336	2800	590	25000		
		0,21	0,66	2108	2800	590	25000		
		0,23	0,73	1914	2800	590	25000		
		0,28	0,87	1601	2800	590	25000		
		0,30	0,95	1473	2800	590	25000		
		0,32	1,0	1343	2800	590	25000		
		0,38	1,2	1183	2800	590	25000		
		0,41	1,3	1052	2800	590	25000		
		0,47	1,5	941	2800	590	25000		
		0,54	1,7	838	2800	590	25000		
		0,60	1,9	739	2800	590	25000		



n₁ = 1400 **r.p.m.**
r.p.m.

Factor de Servicio Sf =1 Service Factor S _f =1 Betriebsfaktor S _f =1	P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}	Tipo Type Typ			kg
	Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial				
	Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads				
	Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte				
	[kW]	[r.p.m]		[Nm]	[N]	[N]				
2800 Nm	0,66	2,1	656	2800	590	25000	İRA İRF	93 İR 62	265 266	171 172
	0,76	2,4	587	2800	590	25000				
	0,82	2,6	528	2800	590	25000				
	0,92	2,9	478	2800	590	25000				
	1,0	3,2	434	2800	590	25000				
	1,1	3,5	398	2800	590	25000				
	1,2	3,9	360	2800	590	25000				
	1,3	4,2	330	2800	590	25000				
	1,5	4,6	302	2800	590	25000				
	1,6	5,1	275	2800	590	25000				
	1,8	5,6	251	2800	590	25000				
	1,9	6,1	230	2800	590	25000				
	2,1	6,6	210	2800	590	25000				
	1,37	4,4	315	2800	590	25000	İRA İRF	92 İR 62	265 266	169 171
	1,56	5,0	277	2800	590	25000				
	1,74	5,6	247	2800	590	25000				
	1,96	6,3	221	2800	590	25000				
	1,5	4,8	293,46	2800	2500	25000	İRA İRF İRAF	93	244 245 246	155 155 157
	1,5	5,1	273,73	2800	2500	25000				
	1,8	5,8	240,50	2800	2500	25000				
	2,0	6,5	213,60	2800	2500	25000				
	2,2	7,3	191,38	2800	2500	25000				
	2,5	8,1	172,72	2800	2500	25000				
	2,7	8,9	156,82	2800	2500	25000				
	3,2	11	131,17	2800	2500	25000				
	3,5	12	120,68	2800	2500	25000				
	3,8	13	110,02	2800	2500	25000				
	4,4	14	96,96	2800	2500	25000				
	4,9	16	86,16	2800	2500	25000				
	5,5	18	77,10	2800	2500	25000				
	6,2	20	68,65	2800	2500	25000				
	7,0	23	60,50	2800	2500	25000				
	7,9	26	53,76	2800	2500	25000				
	8,8	29	48,11	2800	2500	25000				
	9,9	32	43,29	2800	2500	25000				
	11,0	36	39,13	2800	2500	25000				
	12,1	39	35,52	2800	2500	25000				
	13,3	43	32,34	2800	2500	25000				
	14,6	47	29,52	2800	2500	25000				
	15,9	52	27,01	2800	2500	25000				
	17,4	57	24,76	2800	2500	25000				
	18,1	60	23,38	2800	2500	20000	İRA İRF İRAF	92	244 245 246	150 150 152
	20,6	68	20,60	2800	2500	20000				
	23,0	76	18,31	2800	2500	20000				
	25,7	85	16,38	2800	2500	20000				
	28,7	95	14,74	2800	2500	20000				
	31,7	105	13,32	2800	2500	20000				
	38,4	127	11,01	2800	2500	20000				
	42,0	139	10,05	2800	2500	20000				
	45,9	152	9,20	2800	2500	20000				
	50,8	168	8,31	2800	2500	20000				
	55,9	185	7,54	2800	2500	16000				
	61,7	204	6,87	2800	2500	16000				



n₁ = 1400 **r.p.m.**
r.p.m.

		P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}			
		Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial			
Factor de Servicio Sf =1	S _f =1	Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads	Tipo		
Service Factor	S _f =1	Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte	Type		
Betriebsfaktor	S _f =1							Typ		
		[kW]	[r.p.m]		[Nm]	[N]	[N]	kg		
2800 Nm		67,4	223	6,27	2800	2500	16000	İRA İRF 92 İRAF	244	150
		73,8	244	5,74	2800	2500	16000			
		80,4	266	5,26	2800	2500	16000			
		95,5	316	4,43	2800	2500	16000			
		103,7	343	4,08	2800	2500	16000			
		113,1	374	3,75	2800	2500	16000			
		118,2	391	3,58	2800	2500	16000			
		140,3	464	3,02	2800	2500	16000			
		152,3	504	2,78	2800	2500	16000			
		165,6	548	2,55	2800	2500	16000			
		172,6	571	2,45	2800	2500	16000			
4300 Nm		0,03	0,06	22099	4300	1200	34000	İRA İRF 103 İR 73	267	364
		0,03	0,07	18788	4300	1200	34000			
		0,04	0,08	16845	4300	1200	34000			
		0,04	0,09	15213	4300	1200	34000			
		0,05	0,10	13823	4300	1200	34000			
		0,05	0,11	12625	4300	1200	34000			
		0,06	0,12	11581	4300	1200	34000			
		0,06	0,13	10325	4300	1200	34000			
		0,07	0,15	9118	4300	1200	34000			
		0,08	0,17	8104	4300	1200	34000			
		0,09	0,19	7241	4300	1200	34000			
		0,10	0,21	6496	4300	1200	34000			
		0,12	0,24	5848	4300	1200	34000			
		0,13	0,27	5278	4300	1200	34000			
		0,14	0,29	4790	4300	1200	34000			
		0,16	0,33	4230	4300	1200	34000			
		0,18	0,37	3760	4300	1200	34000			
		0,20	0,41	3359	4300	1200	34000			
		0,23	0,46	3014	4300	1200	34000			
		0,25	0,51	2713	4300	1200	34000			
		0,28	0,57	2448	4300	1200	34000			
		0,25	0,51	2733	4300	1200	34000			
		0,28	0,58	2413	4300	1200	34000			
		0,32	0,65	2145	4300	1200	34000			
		0,35	0,73	1916	4300	1200	34000			
		0,41	0,85	1635	4300	1200	34000			
		0,47	0,96	1460	4300	1200	34000			
		0,49	1,0	1311	4300	1200	34000			
		0,58	1,2	1180	4300	1200	34000			
		0,63	1,3	1103	4300	1200	34000			
		0,68	1,4	986	4300	1200	34000			
		0,78	1,6	884	4300	1200	34000			
		0,87	1,8	796	4300	1200	34000			
		0,92	1,9	718	4300	1200	34000			
1,02	2,1	650	4300	1200	34000					
1,17	2,4	575	4300	1200	34000					
0,58	1,2	1173	4300	1200	34000	İRA İRF 103 İR 72	267	362		
0,63	1,3	1046	4300	1200	34000					
0,73	1,5	923	4300	1200	34000					
0,83	1,7	821	4300	1200	34000					
0,92	1,9	733	4300	1200	34000					



n₁ = 1400 **r.p.m.**
r.p.m.

		P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}		
Factor de Servicio Sf =1		Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial	Tipo	
Service Factor S _f =1		Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads	Type	
Betriebsfaktor S _f =1		Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte	Typ	
		[kW]	[r.p.m]		[Nm]	[N]	[N]	kg	
4300 Nm	1,0	2,1	658	4300	1200	34000	İRA İRF 103 İR 72	267	362
	1,1	2,3	592	4300	1200	34000		268	364
	1,3	2,6	535	4300	1200	34000			
	1,4	2,9	485	4300	1200	34000			
	1,6	3,2	428	4300	1200	34000			
	1,7	3,6	381	4300	1200	34000			
	2,0	4,1	340	4300	1200	34000			
	2,2	4,5	305	4300	1200	34000			
	2,4	5,0	275	4300	1200	34000			
	2,7	5,6	248	4300	1200	34000			
	2,8	5,9	239	4300	1200	34000	İRA İRF 102 İR 72	267	352
	3,2	6,6	211	4300	1200	34000		268	354
	3,5	7,4	188	4300	1200	34000			
	3,8	8,0	168	4300	1200	34000			
	2,6	5,5	256,048	4300	3750	30000	İRA İRF 103 İRAF		
	2,9	6,2	225,112	4300	3750	30000			
	3,2	6,7	207,689	4300	3750	30000			
	3,6	7,6	184,584	4300	3750	30000			
	4,0	8,5	165,496	4300	3750	30000			
	4,7	10	140,701	4300	3750	30000			
	5,2	11	126,151	4300	3750	30000			
	5,7	12	113,930	4300	3750	30000			
	6,6	14	103,519	4300	3750	30000			
	7,1	15	94,544	4300	3750	30000			
	7,5	16	86,727	4300	3750	30000			
	8,5	18	77,321	4300	3750	30000			
	9,4	20	68,283	4300	3750	30000		247	207
	10,8	23	60,691	4300	3750	30000		248	210
	12,2	26	54,223	4300	3750	30000		249	232
	13,7	29	48,648	4300	3750	30000			
	15,1	32	43,792	4300	3750	30000			
	16,5	35	39,525	4300	3750	30000			
	18,4	39	35,870	4300	3750	30000			
	20,7	44	31,677	4300	3750	30000			
	23,6	50	28,155	4300	3750	30000			
	25,9	55	25,155	4300	3750	30000			
	29,2	62	22,568	4300	3750	30000			
	32,5	69	20,316	4300	3750	30000			
	35,8	76	18,336	4300	3750	30000			
	39,6	84	16,582	4300	3750	30000			
	43,8	93	15,019	4300	3750	30000			
	36,7	79	17,692	4300	3750	25000	İRA İRF 102 İRAF		
	41,3	89	15,624	4300	3750	25000			
	46,9	101	13,887	4300	3750	25000			
	52,4	113	12,407	4300	3750	25000			
	61,3	132	10,585	4300	3750	25000		247	200
	68,7	148	9,457	4300	3750	25000		248	203
	76,6	165	8,485	4300	3750	25000		249	225
	84,9	183	7,638	4300	3750	25000			
	91,0	196	7,144	4300	3750	25000			
	101,6	219	6,382	4300	3750	25000			
	113,2	244	5,726	4300	3750	25000			
	126,2	272	5,154	4300	3750	21000			



n₁ = 1400 **r.p.m.**
r.p.m.

Factor de Servicio Sf =1 Service Factor S _f =1 Betriebsfaktor S _f =1	P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}	Tipo Type Typ	 	kg
	Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial			
	Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads			
	Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte			
	[kW]	[r.p.m.]		[Nm]	[N]	[N]			
4300 Nm	139,7	301	4,652	4300	3750	21000	İRA İRF 102 İRAF	 	kg
	154,5	333	4,207	4300	3750	21000			
	174,5	376	3,723	4300	3750	21000			
	193,5	417	3,360	4300	3750	21000			
	213,9	461	3,039	4300	3750	21000			
	236,2	509	2,752	4300	3750	19000			
	260,3	561	2,495	4300	3750	19000			
	287,3	619	2,263	4300	3750	19000			
8000 Nm	0,04	0,04	32309	8000	1200	52000	İRA İRF 123 İR 73	 	kg
	0,05	0,05	28749	8000	1200	52000			
	0,05	0,05	25807	8000	1200	52000			
	0,06	0,06	23337	8000	1200	52000			
	0,06	0,07	18918	8000	1200	52000			
	0,07	0,08	17260	8000	1200	52000			
	0,08	0,09	15494	8000	1200	52000			
	0,09	0,10	13395	8000	1200	52000			
	0,10	0,11	12113	8000	1200	52000			
	0,11	0,12	11190	8000	1200	52000			
	0,13	0,14	10209	8000	1200	52000			
	0,14	0,15	9165	8000	1200	52000			
	0,16	0,17	8288	8000	1200	52000			
	0,17	0,18	7928	8000	1200	52000			
	0,20	0,22	6426	8000	1200	52000			
	0,22	0,24	5863	8000	1200	52000			
	0,25	0,27	5263	8000	1200	52000			
	0,27	0,29	4759	8000	1200	52000			
	0,32	0,35	3975	8000	1200	52000			
	0,37	0,40	3498	8000	1200	52000			
	0,41	0,45	3104	8000	1200	52000			
	0,46	0,50	2773	8000	1200	52000			
	0,31	0,34	4059	8000	1200	52000			
	0,34	0,38	3671	8000	1200	52000			
	0,36	0,40	3509	8000	1200	52000			
	0,40	0,44	3173	8000	1200	52000			
	0,48	0,53	2650	8000	1200	52000			
	0,52	0,58	2399	8000	1200	52000			
	0,58	0,64	2170	8000	1200	52000			
	0,70	0,77	1812	8000	1200	52000			
	0,80	0,88	1594	8000	1200	52000			
	0,90	1,0	1379	8000	1200	52000			
	0,99	1,1	1247	8000	1200	52000			
	1,2	1,3	1042	8000	1200	52000			
	1,4	1,5	916	8000	1200	52000			
	1,5	1,7	813	8000	1200	52000			
	1,7	1,9	726	8000	1200	52000			
	1,9	2,1	652	8000	1200	52000			
	2,1	2,3	603	8000	1200	52000			
	0,44	0,49	2829	8000	1200	52000			
	0,50	0,55	2517	8000	1200	52000			
	0,56	0,62	2260	8000	1200	52000			
	0,61	0,68	2043	8000	1200	52000			
	0,77	0,85	1657	8000	1200	52000			
	0,84	0,93	1511	8000	1200	52000			
	0,44	0,49	2829	8000	1200	52000	İRA İRF 123 İR 72	 	kg
	0,50	0,55	2517	8000	1200	52000			
	0,56	0,62	2260	8000	1200	52000			
	0,61	0,68	2043	8000	1200	52000			
	0,77	0,85	1657	8000	1200	52000			
	0,84	0,93	1511	8000	1200	52000			



n₁ = 1400 **r.p.m.**
r.p.m.

		P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}		
Factor de Servicio Sf =1		Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial	Tipo	
Service Factor S _f =1		Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads	Type	
Betriebsfaktor S _f =1		Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte	Typ	
		[kW]	[r.p.m]		[Nm]	[N]	[N]	kg	
8000 Nm	0,90	1,0	1357	8000	1200	52000	İRA İRF 123 İR 72	269 429	270 431
	0,99	1,1	1227	8000	1200	52000			
	1,3	1,4	1025	8000	1200	52000			
	1,4	1,6	902	8000	1200	52000			
	1,5	1,7	800	8000	1200	52000			
	1,8	2,0	715	8000	1200	52000			
	2,0	2,2	642	8000	1200	52000			
	2,2	2,4	579	8000	1200	52000			
	2,3	2,5	550	8000	1200	52000			
	2,6	2,9	488	8000	1200	52000			
	2,9	3,2	436	8000	1200	52000			
	3,3	3,6	392	8000	1200	52000			
	3,6	4,0	354	8000	1200	52000			
	4,0	4,4	320	8000	1200	52000			
	4,3	4,8	291	8000	1200	52000			
	4,8	5,3	265	8000	1200	52000			
	5,2	5,8	242	8000	1200	52000			
	5,7	6,3	221	8000	1200	52000			
	6,3	7,0	201	8000	1200	52000			
	7,0	7,7	183	8000	1200	52000			
	7,6	8,4	167	8000	1200	52000			
	3,5	3,9	335	8000	1200	52000	İRA İRF 122 İR 72	269 423	270 425
	3,9	4,4	321	8000	1200	52000			
	4,6	5,2	268	8000	1200	52000			
	5,3	5,9	236	8000	1200	52000			
	6,0	6,7	210	8000	1200	52000			
	6,7	7,5	187	8000	1200	52000			
	7,4	8,3	168	8000	1200	52000			
	8,0	9,0	155	8000	1200	52000			
	5,9	6,7	209,172	8000	3750	41000	İRA İRF 123 İRAF	250 323	251 325
	6,6	7,5	186,123	8000	3750	41000			
	7,4	8,4	167,082	8000	3750	41000			
	8,1	9,2	151,088	8000	3750	41000			
	9,6	11	122,480	8000	3750	41000			
	10,5	12	111,746	8000	3750	41000			
	12,3	14	100,314	8000	3750	41000			
	13,1	15	90,712	8000	3750	41000			
	15,8	18	75,766	8000	3750	41000			
	18,4	21	66,672	8000	3750	41000			
	21,0	24	59,160	8000	3750	39700			
	22,8	26	52,849	8000	3750	39700			
	25,4	29	47,474	8000	3750	39700			
	28,0	32	42,840	8000	3750	39700			
	29,8	34	40,700	8000	3750	39700			
	34,2	39	36,114	8000	3750	39700			
	37,7	43	32,262	8000	3750	39700			
	42,1	48	28,980	8000	3750	39700			
	46,5	53	26,151	8000	3750	39700			
	51,7	59	23,687	8000	3750	39700			
	57,0	65	21,522	8000	3750	39700			
	62,2	71	19,604	8000	3750	39700			
	68,4	78	17,894	8000	3750	39700			

n₁ = 1400

r.p.m.

Parc Empresarial Cervelló C/ Macabeo, 8 ES 08758 CERVELLÓ
T. +34 936 630 740 F. +34 936 632 057 info@brownadvance.com www.brownadvance.com



n₁ = 1400 **r.p.m.**
r.p.m.

Factor de Servicio Sf =1 Service Factor S _f =1 Betriebsfaktor S _f =1	P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}	Tipo Type Typ			kg
	Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial				
	Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads				
	Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte				
	[kW]	[r.p.m.]		[Nm]	[N]	[N]				
10500 Nm	2,3	1,9	735,26	10500	1200	69000	İRA İRF 151 İR 72			272 506 272 508
	2,8	2,4	586,53	10500	1200	69000				
	3,4	2,9	485,49	10500	1200	69000				
	4,1	3,5	403,65	10500	1200	69000				
	4,4	3,7	376,84	10500	1200	69000				
	6,0	5,0	278,72	10500	1200	69000				
	6,8	5,7	244,45	10500	1200	69000				
	2,8	2,4	590,59	10500	1550	69000	İRA İRF 151 İR 82			273 543 273 550
	3,5	2,9	479,79	10500	1550	69000				
	3,9	3,3	431,48	10500	1550	69000				
	4,0	3,3	429,06	10500	1550	69000				
	4,7	4,0	355,15	10500	1550	69000				
	5,7	4,8	292,73	10500	1550	69000				
	5,9	4,9	288,93	10500	1550	69000				
	6,9	5,8	244,27	10500	1550	69000				
	8,3	7,0	201,67	10500	1550	69000				
9240-10400 Nm	15,5	15	90,36	9300	5000	60000	İRA İRF 151			253 488 253 495
	20,7	20	67,16	9300	5000	60000				
	23,8	23	59,97	9300	5000	60000				
	29,8	29	48,79	9250	5000	60000				
	40,5	35	40,39	10400	5000	60000				
	44,7	39	36,32	10300	5000	60000				
	49,3	43	32,85	10300	5000	60000				
	53,8	47	29,87	10300	5000	60000				
	59,0	51	27,27	10400	5000	60000				
	64,2	56	24,83	10300	5000	60000				
	71,0	62	22,67	10300	5000	60000				
	76,8	67	20,77	10300	5000	60000				
	83,7	73	19,08	10300	5000	60000				
	85,5	75	18,79	10250	5000	60000				
	93,5	82	17,00	10250	5000	60000				
	106,6	93	15,00	10300	5000	60000				
	120,9	106	13,20	10250	5000	60000				
	142,4	123	11,38	10400	5000	60000				
18330 Nm	17	8,5	165,41	18330	6000	85000	İRA İRF 181			254 980 254 985
	19	9,6	145,39	18330	6000	85000				
	23	11,5	121,76	18330	6000	85000				
	45	19	75,30	18330	6000	85000				
	50	20	67,93	18330	6000	85000				
	75	31	45,73	18330	6000	85000				
	100	37	37,96	18330	6000	85000				
	115	41	34,32	18330	6000	85000				
	140	50	28,45	18330	6000	85000				
	157	55	26,05	18330	6000	85000				
	175	65	21,69	18330	6000	85000				
	215	77	18,34	18330	6000	85000				
	260	90	15,54	18330	6000	85000				
	400	110	13,09	18330	6000	85000				



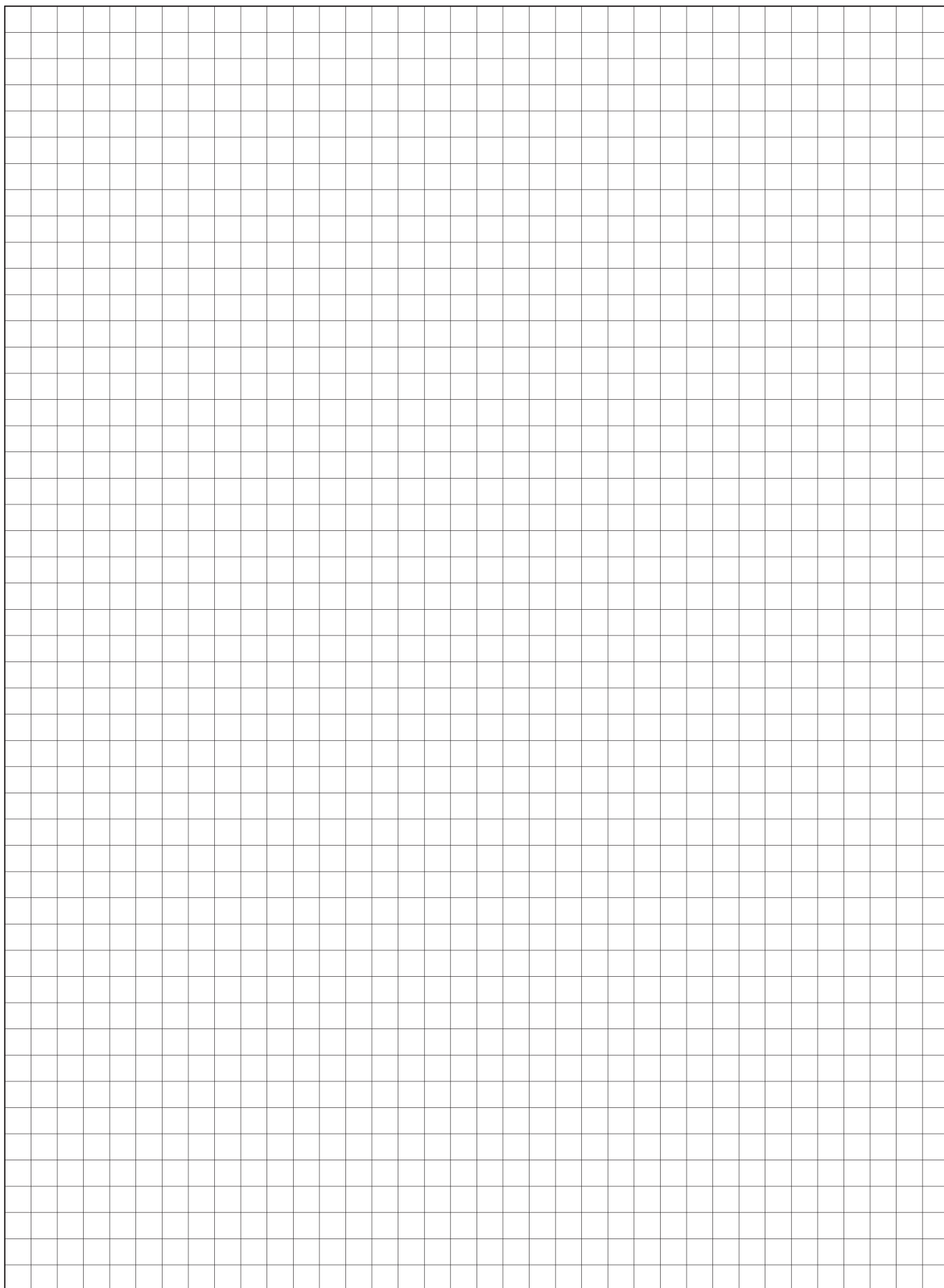
n₁ = 900 **r.p.m.**
r.p.m.

Factor de Servicio Sf =1 Service Factor S _f =1 Betriebsfaktor S _f =1		P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}	Tipo Type Typ			
		Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial				
		Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads				
		Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte				
		[kW]	[r.p.m]		[Nm]	[N]	[N]	kg			
85 Nm	0,16	17	53,331	85	390	2100	İRA	43	223	9	
	0,18	19	46,977	85	390	2100	İRF		224	10	
							İRAF		225	10	
150 Nm	0,14	8,5	105,66	150	475	4250	İRA	53	226	11	
	0,16	10	88,98	150	475	4250	İRF		227	11	
	0,19	12	77,16	150	475	4250	İRAF		228	13	
410 Nm	0,31	7	127,94	410	590	7300	İRA	631	229	19	
	0,34	7,5	119,40	410	590	7300	İRF		230	19	
	0,43	9,5	96,27	410	590	7300	İRAF		231	21	
	0,45	10	87,81	410	590	7300					
	0,31	7	127,94	410	590	7300	İRA	63	232	19	
	0,34	7,5	119,40	410	590	7300	İRF		233	19	
	0,43	9,5	96,27	410	590	7300	İRAF		234	21	
	0,45	10	87,81	410	590	7300					
	600 Nm	0,39	5,9	152,090	600	1000	10100	İRA	731	235	40
		0,43	6,6	134,933	600	1000	10100	İRF		236	43
		0,51	7,7	116,652	600	1000	10100	İRAF		237	46
		0,59	8,9	100,847	600	1000	10100				
870 Nm	0,57	6	154,46	870	1200	12100	İRA	73	238	41	
	0,62	6,5	133,53	870	1200	12100	İRF		239	44	
	0,81	8,5	103,60	870	1200	12100	İRAF		240	47	
	0,95	10	91,36	870	1200	12100					
1500 Nm	0,59	3,6	250,50	1500	1550	17500	İRA	83	241	84	
	0,66	4	221,16	1500	1550	17500	İRF		242	83	
	0,71	4,3	208,58	1500	1550	17500	İRAF		243	90	
	0,79	4,8	186,71	1500	1550	17500					
	0,87	5,3	168,34	1500	1550	17500					
2800 Nm	0,92	3	293,46	2800	2500	25000	İRA	93	244	155	
	1,0	3,3	273,73	2800	2500	25000	İRF		245	155	
	1,1	3,7	240,50	2800	2500	25000	İRAF		246	157	
	1,3	4,2	213,60	2800	2500	25000					
4300 Nm	1,7	3,5	256,04	4300	3750	34000	İRA	103			
	1,9	4	225,11	4300	3750	34000	İRF		247	207	
	2,0	4,3	207,68	4300	3750	34000	İRAF		248	210	
	2,3	4,9	184,58	4300	3750	34000			249	232	
	2,6	5,4	165,49	4300	3750	34000					
	3,0	6,4	140,70	4300	3750	34000					
	3,4	7,1	126,15	4300	3750	34000					
8000 Nm	4,2	4,8	186,123	8000	3750	45000	İRA	123			
	4,7	5,4	167,082	8000	3750	45000	İRF		250	323	
	5,2	5,9	151,088	8000	3750	45000	İRAF		251	325	
	6,4	7,3	122,480	8000	3750	45000			252	353	
	7,0	8	111,746	8000	3750	45000					
	7,9	9	100,314	8000	3750	45000					
	8,8	10	90,712	8000	3750	45000					
	10,5	12	75,766	8000	3750	45000					
10500 Nm	0,27	0,22	4099,41	10500	590	69000	İRA	151 İR 63	271	487	
	0,43	0,36	2552,42	10500	590	69000	İRF		271	485	
	0,61	0,51	1790,46	10500	590	69000					
	0,89	0,74	1228,05	10500	590	69000					
	1,08	0,90	1016,50	10500	590	69000					



n₁ = 700 **r.p.m.**
r.p.m.

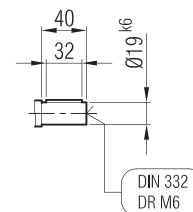
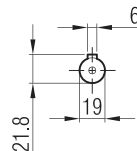
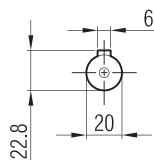
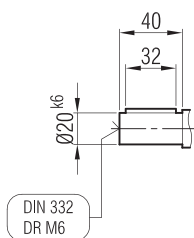
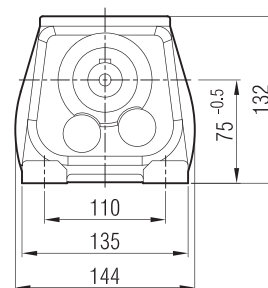
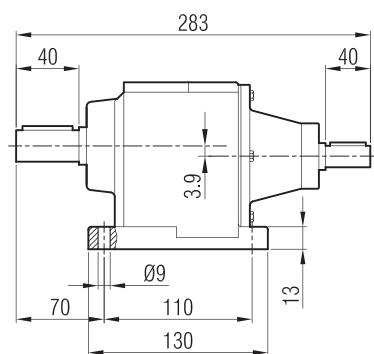
		P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q1/2}			
Factor de Servicio Sf =1 Service Factor S _f =1 Betriebsfaktor S _f =1		Potencia	Velocidad	Reducción	Par de Salida	Carga Radial	Carga Radial	Tipo		
		Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads	Type		
		Leistung	Abtriebswelle Drehzahlen	Übersetzung	Abtriebswelle Drehmomente	Querkräfte	Querkräfte	Typ		
		[kW]	[r.p.m]		[Nm]	[N]	[N]			
600 Nm	0,30	4,6	152,090	600	1000	10100	İRA	731	235	40
	0,34	5,2	134,933	600	1000	10100	İRF		236	43
							İRAF		237	46
1500 Nm	0,46	2,8	250,50	1500	1550	17500	İRA	83	241	84
	0,51	3,1	221,16	1500	1550	17500	İRF		242	83
	0,54	3,3	208,58	1500	1550	17500	İRAF		243	90
2800 Nm	0,74	2,4	293,46	2800	2500	25000	İRA	93	244	155
	0,80	2,6	273,73	2800	2500	25000	İRF		245	155
	0,89	2,9	240,50	2800	2500	25000	İRAF		246	157
4300 Nm	1,3	2,7	256,04	4300	3750	34000	İRA İRF İRAF	103	247	207
	1,5	3,1	225,11	4300	3750	34000			248	210
	1,6	3,4	207,68	4300	3750	34000			249	232
	1,8	3,8	184,58	4300	3750	34000				
	2,0	4,2	165,49	4300	3750	34000				
	2,4	5	140,70	4300	3750	34000				
8000 Nm	3,2	3,7	186,123	8000	3750	45000	İRA İRF İRAF	123	250	323
	3,7	4,2	167,082	8000	3750	45000			251	325
	4,0	4,6	151,088	8000	3750	45000			252	353
	5,0	5,7	122,480	8000	3750	45000				
	5,4	6,2	111,746	8000	3750	45000				
	6,1	7,0	100,314	8000	3750	45000				
	6,7	7,7	90,712	8000	3750	45000				
	8,1	9,2	75,766	8000	3750	45000				
10500 Nm	0,13	0,11	6466,41	10500	590	69000	İRA İRF	151 İR 63	271	487
	0,18	0,15	4766,77	10500	590	69000			271	485
	0,20	0,16	4256,64	10500	590	69000				
	0,23	0,19	3660,46	10500	590	69000				
	0,29	0,24	2858,32	10500	590	69000				
	0,39	0,33	2144,03	10500	590	69000				
	0,41	0,34	2076,56	10500	590	69000				
	0,48	0,40	1743,35	10500	590	69000				
	0,65	0,54	1298,44	10500	590	69000				
	0,70	0,58	1205,72	10500	590	69000				





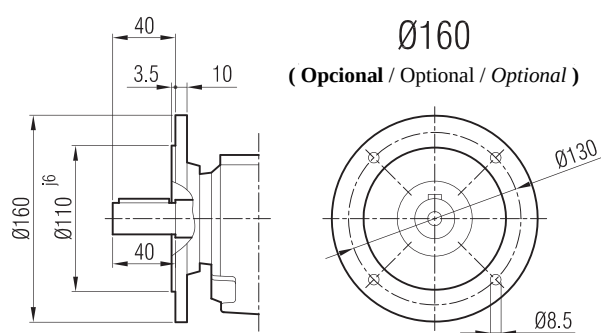
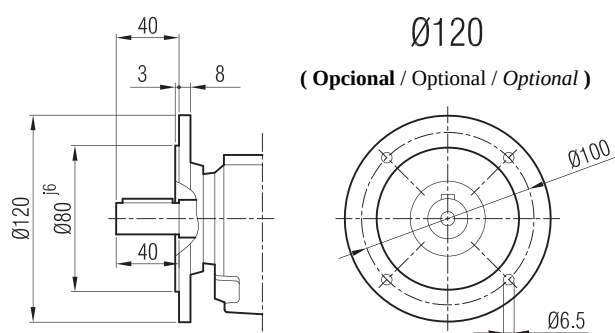
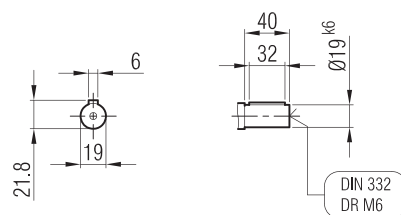
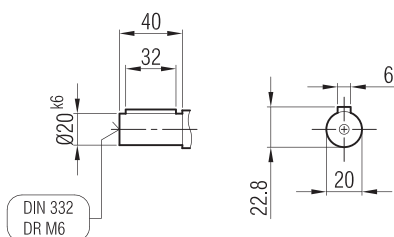
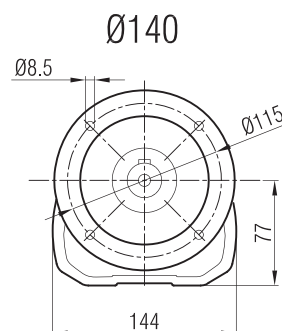
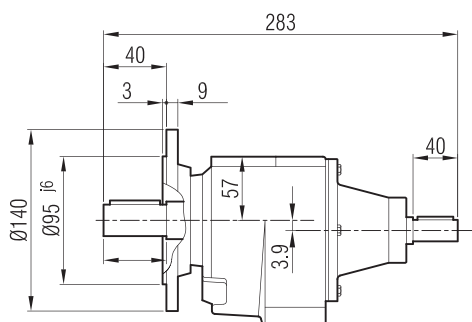
IRA 42

IRA 43



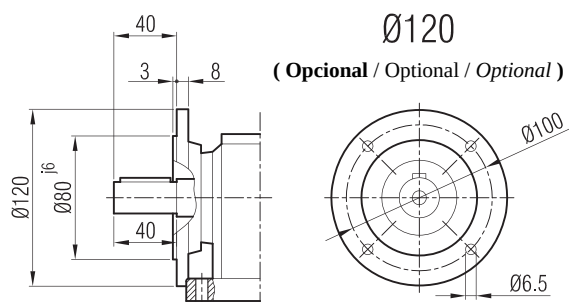
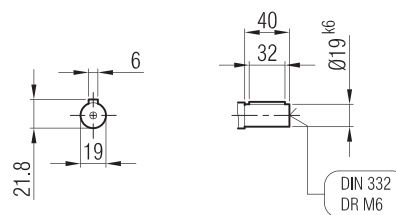
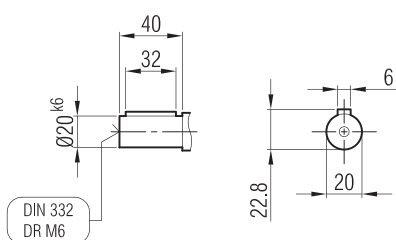
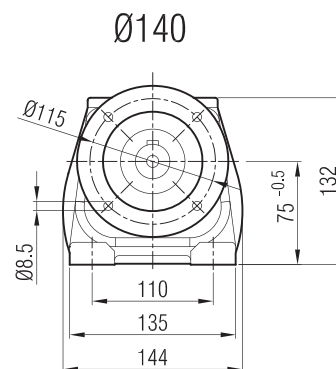
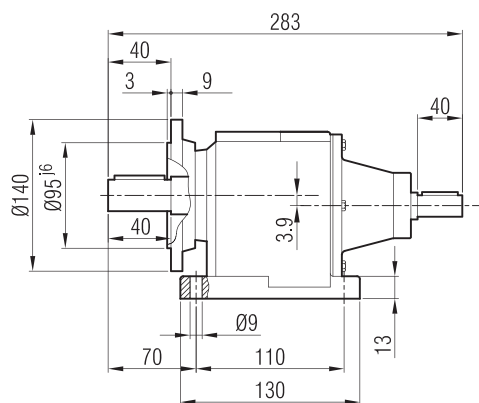


IRF 42
IRF 43

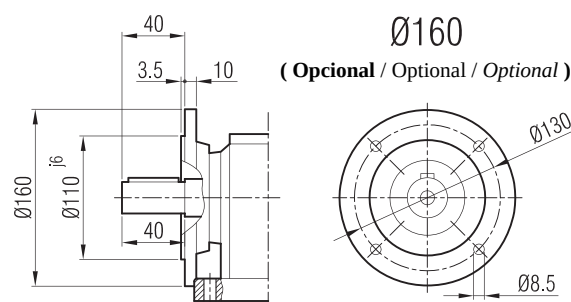




İRAF 42
İRAF 43



Ø120
(Opcional / Optional / Optional)

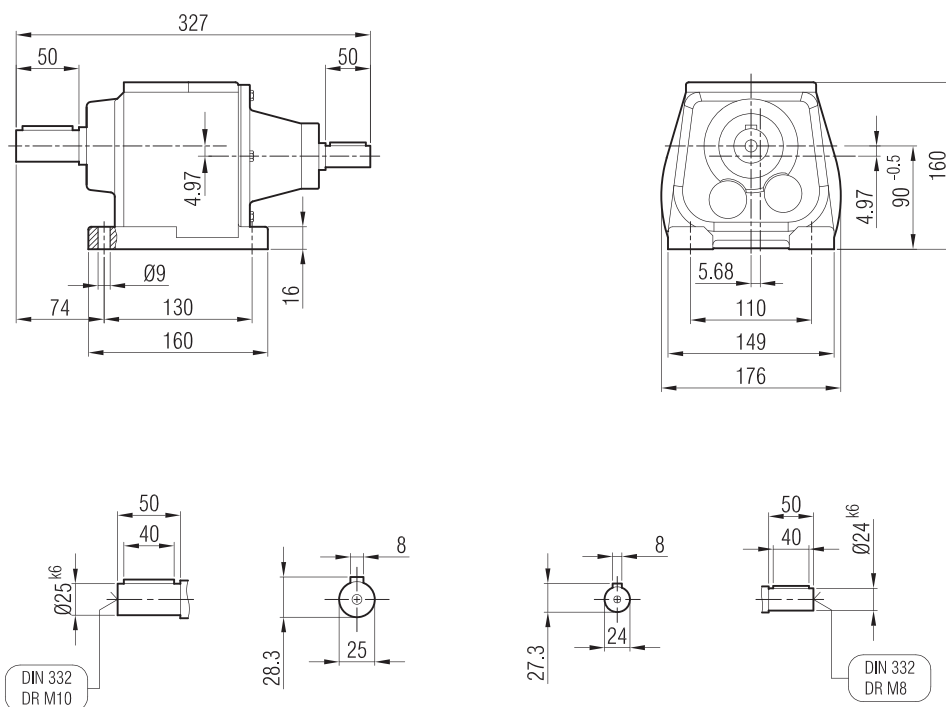


Ø160
(Opcional / Optional / Optional)



IRA 52

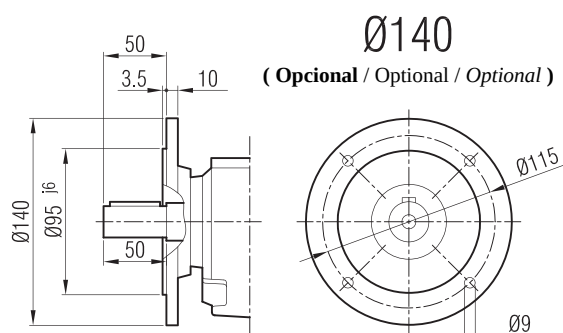
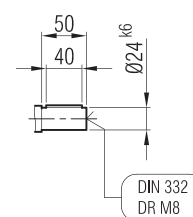
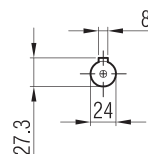
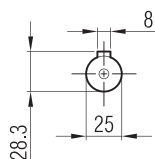
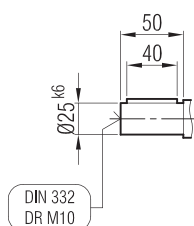
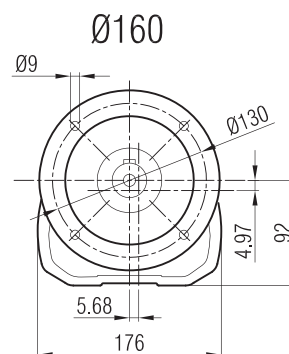
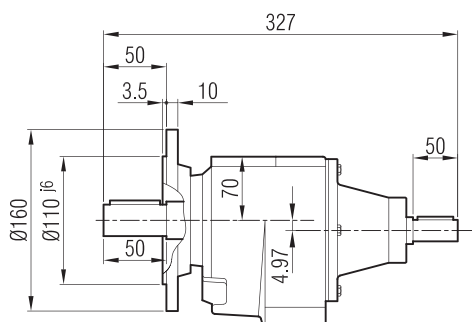
IRA 53





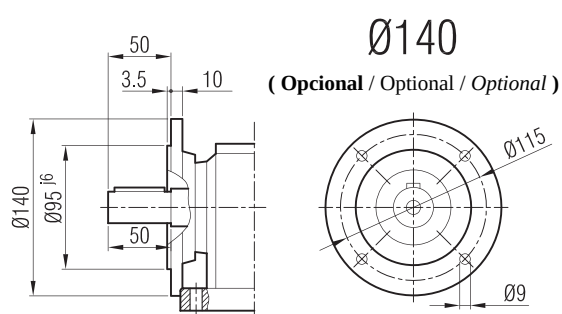
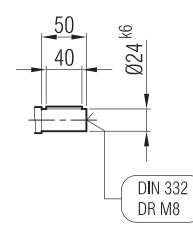
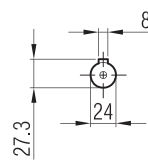
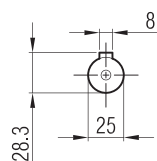
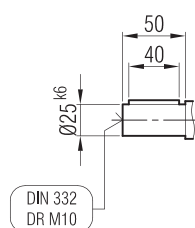
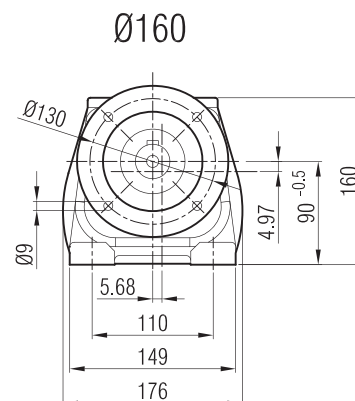
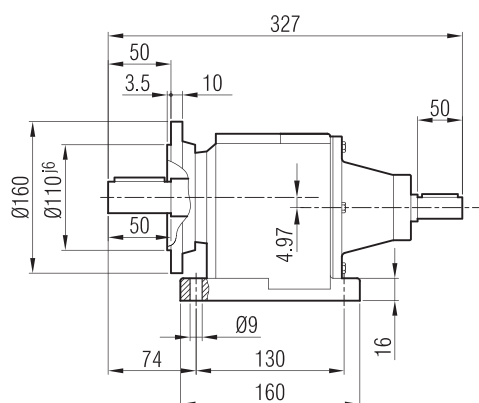
IRF 52

IRF 53





İRAF 52 İRAF 53

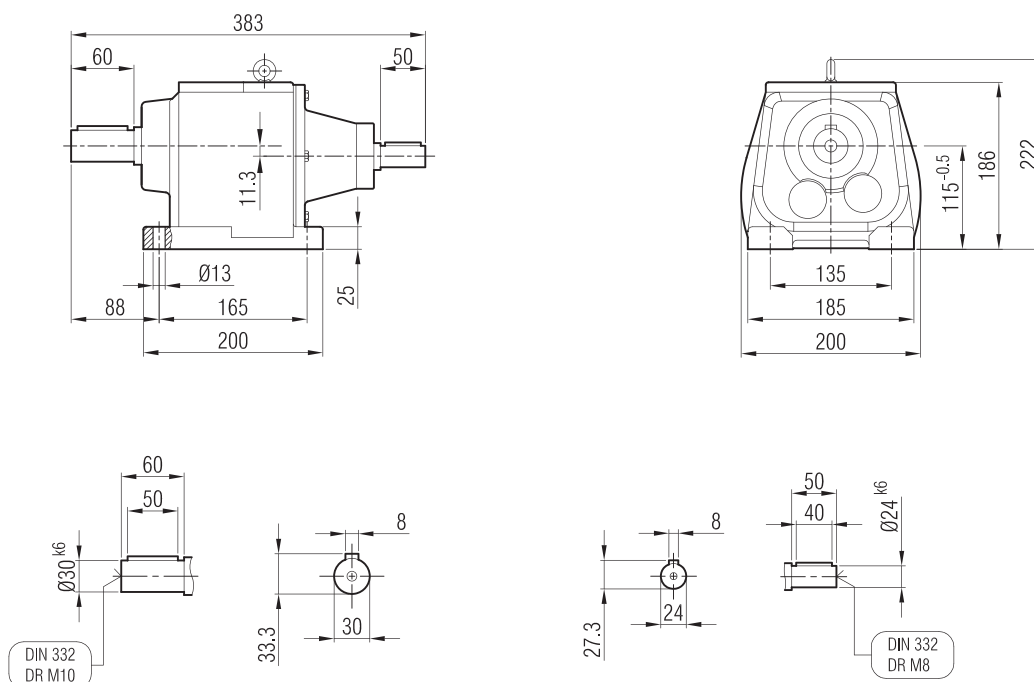


Ø140
(Opcional / Optional / Optional)



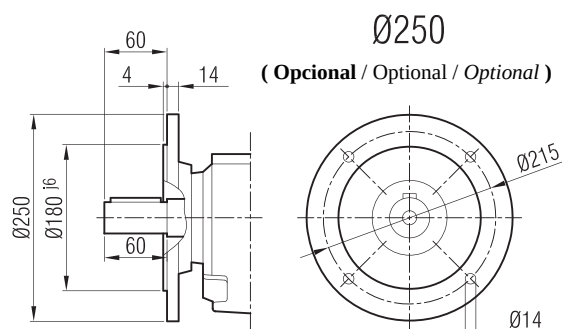
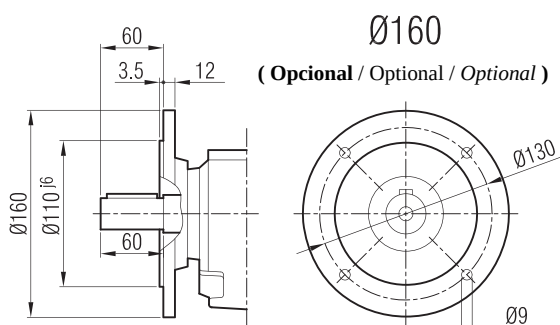
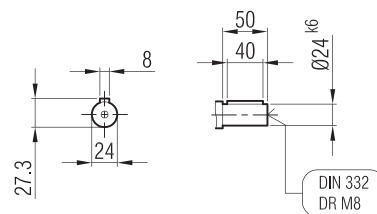
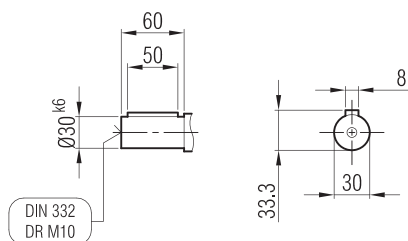
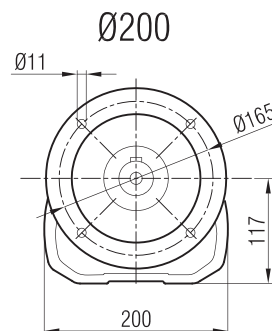
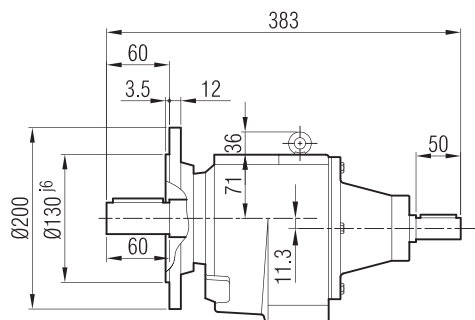
IRA 621

IRA 631



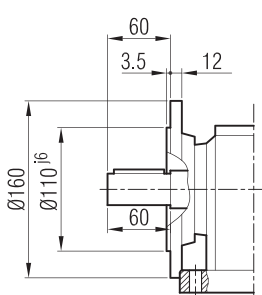
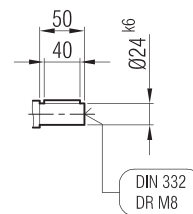
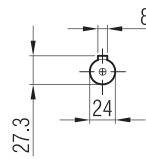
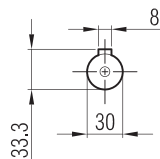
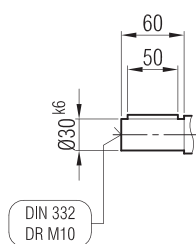
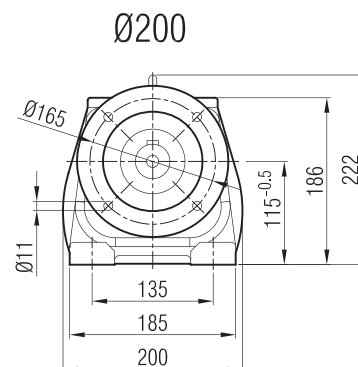
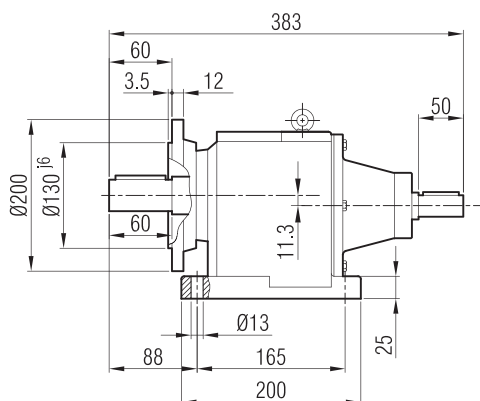


İRF 621
İRF 631

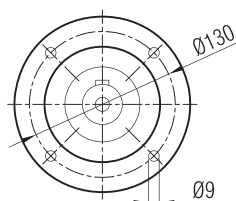




İRAF 621
İRAF 631

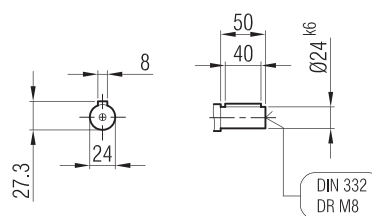
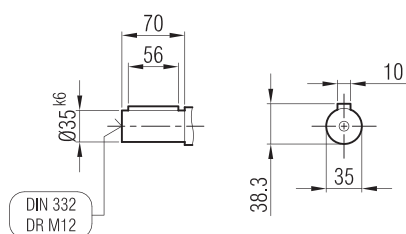
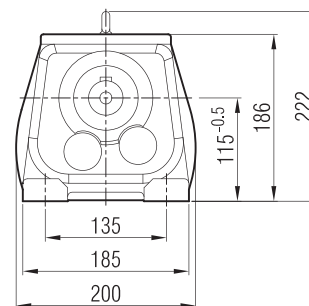
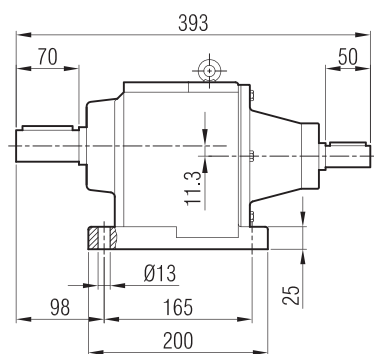


Ø160
(Opcional / Optional / Optional)



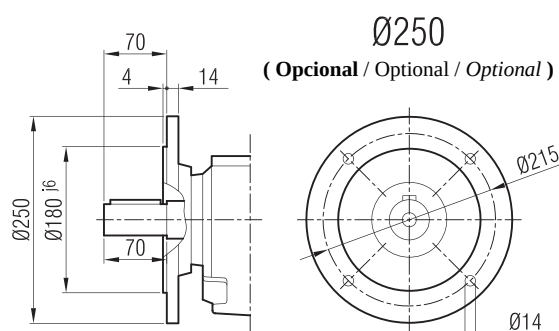
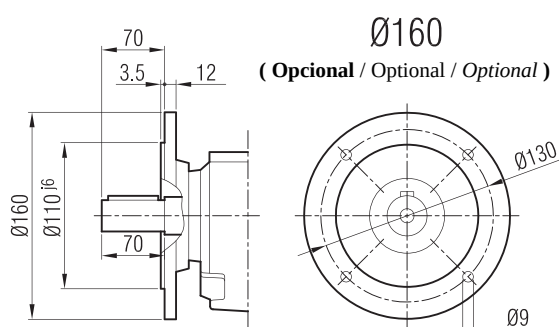
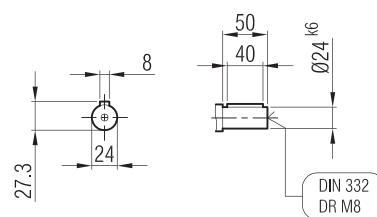
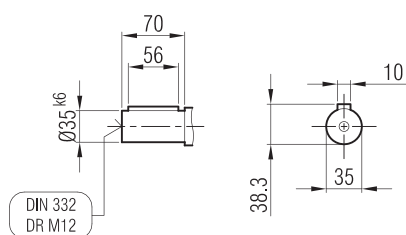
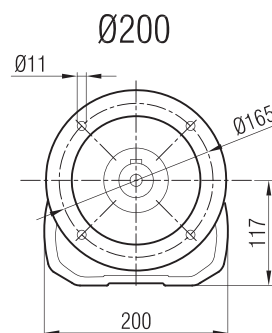
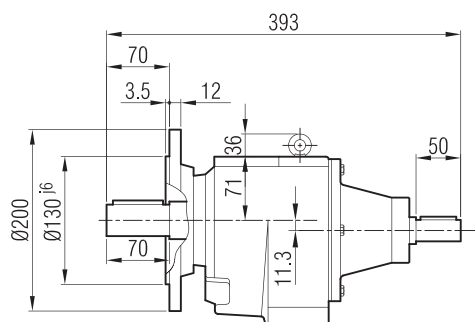


IRA 62
IRA 63





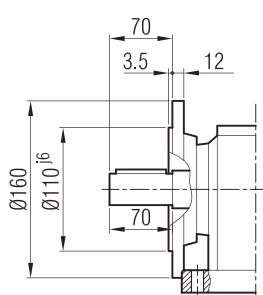
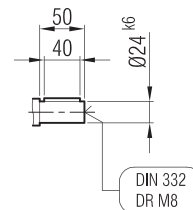
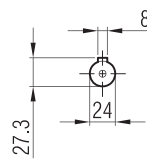
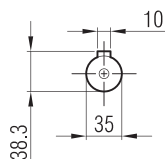
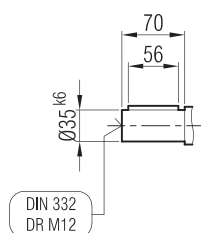
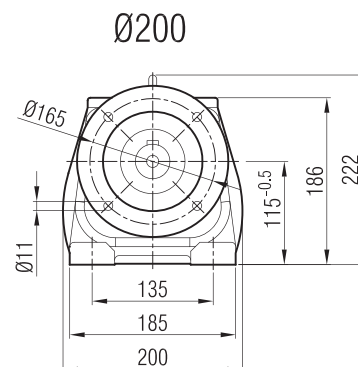
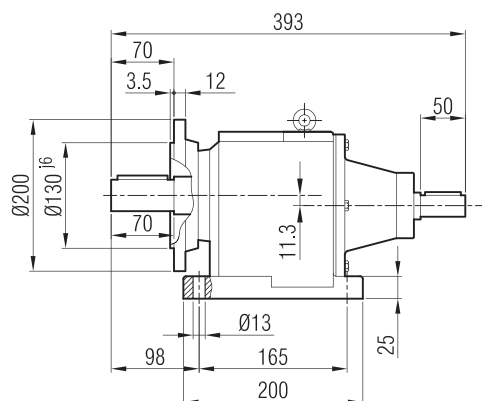
IRF 62
IRF 63



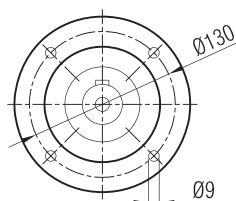


İRAF 62

İRAF 63



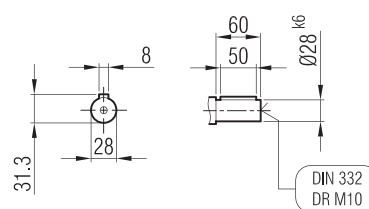
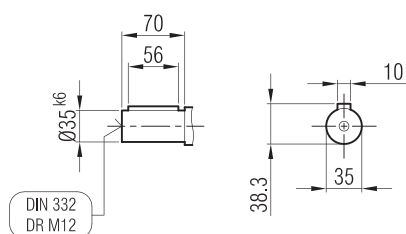
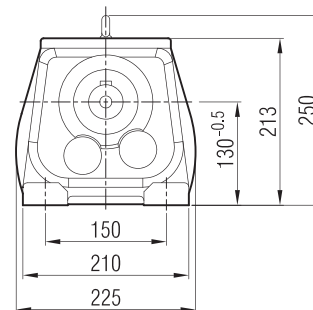
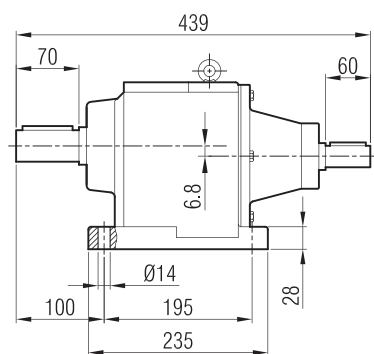
Ø160
(Opcional / Optional / Optional)





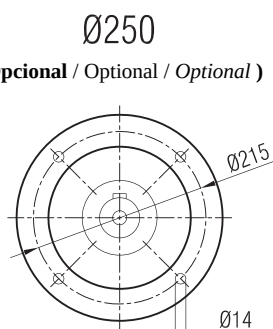
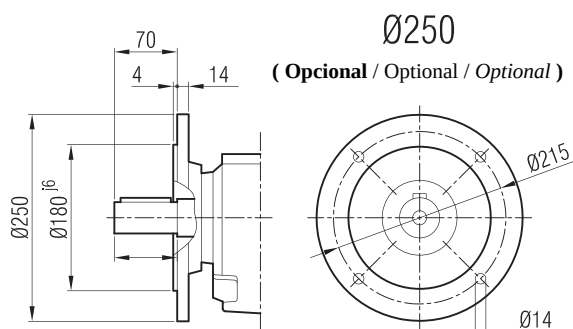
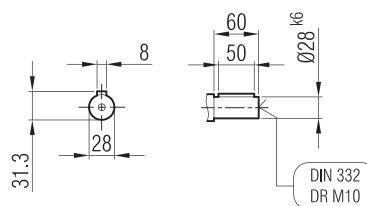
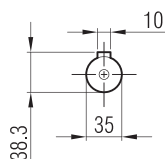
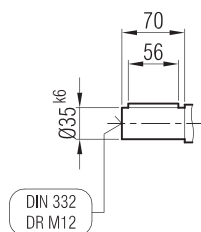
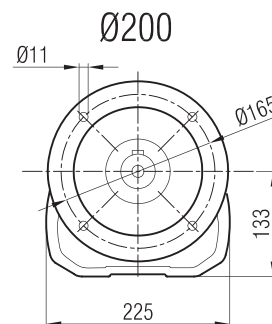
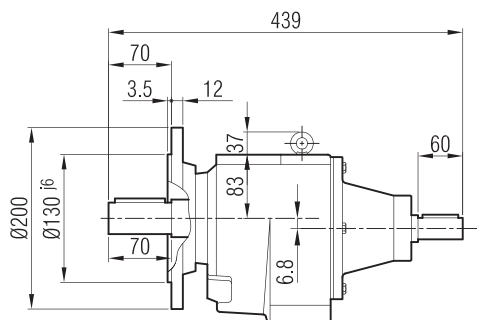
IRA 721

IRA 731



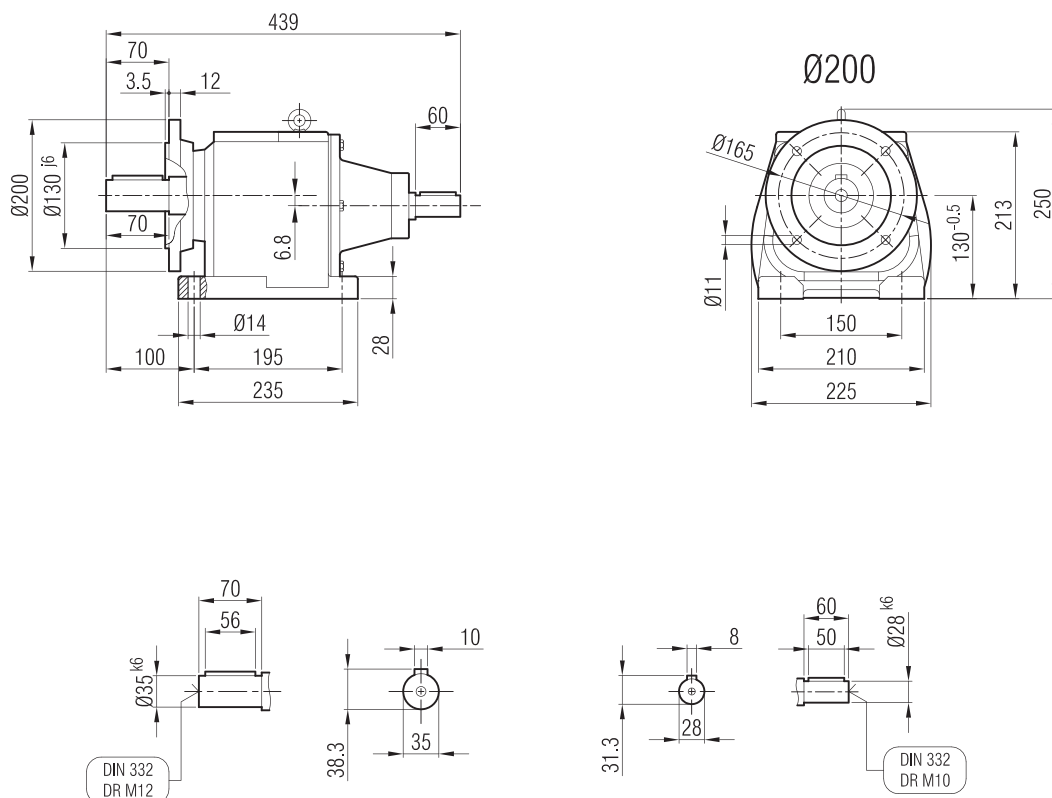


IRF 721
IRF 731





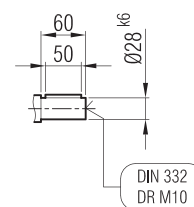
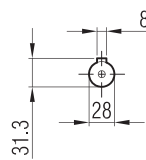
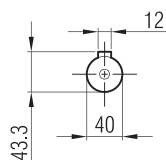
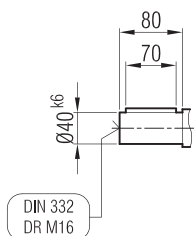
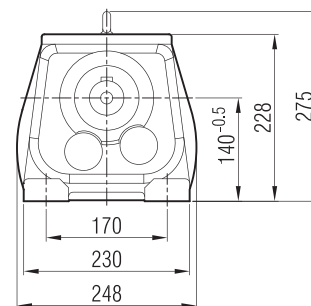
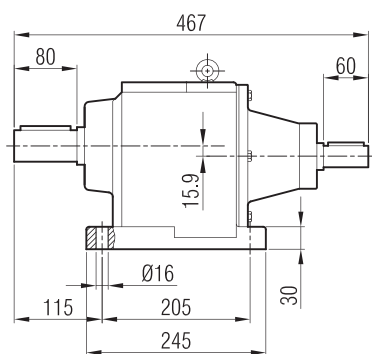
İRAF 721
İRAF 731





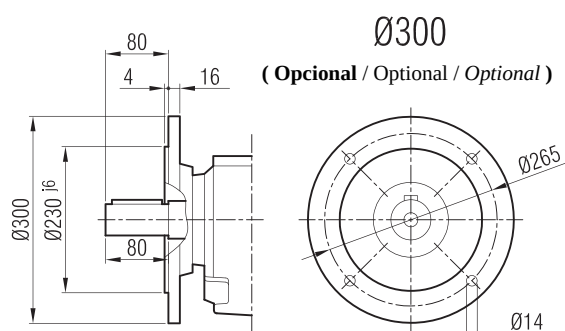
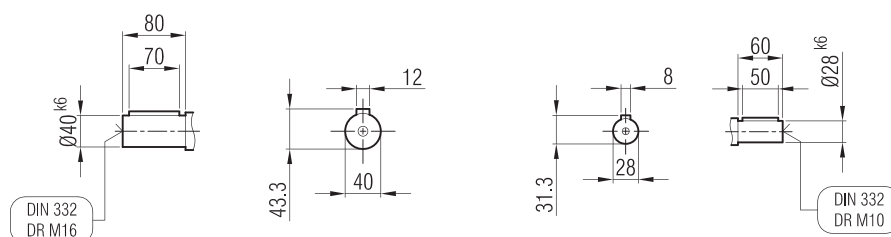
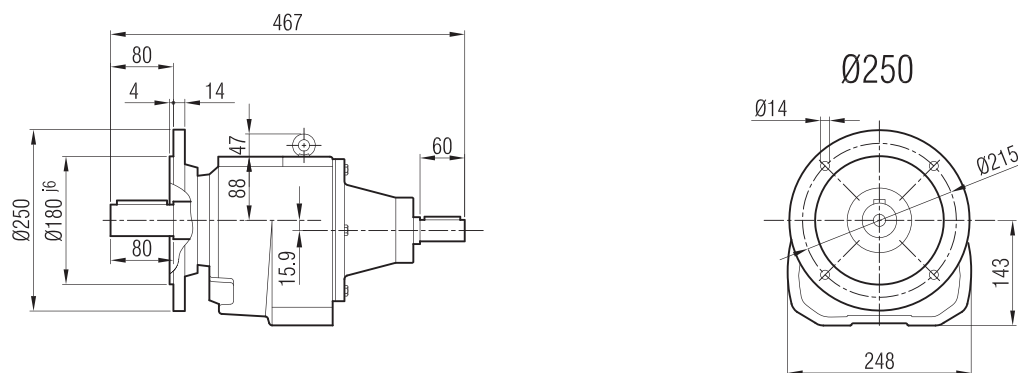
IRA 72

IRA 73



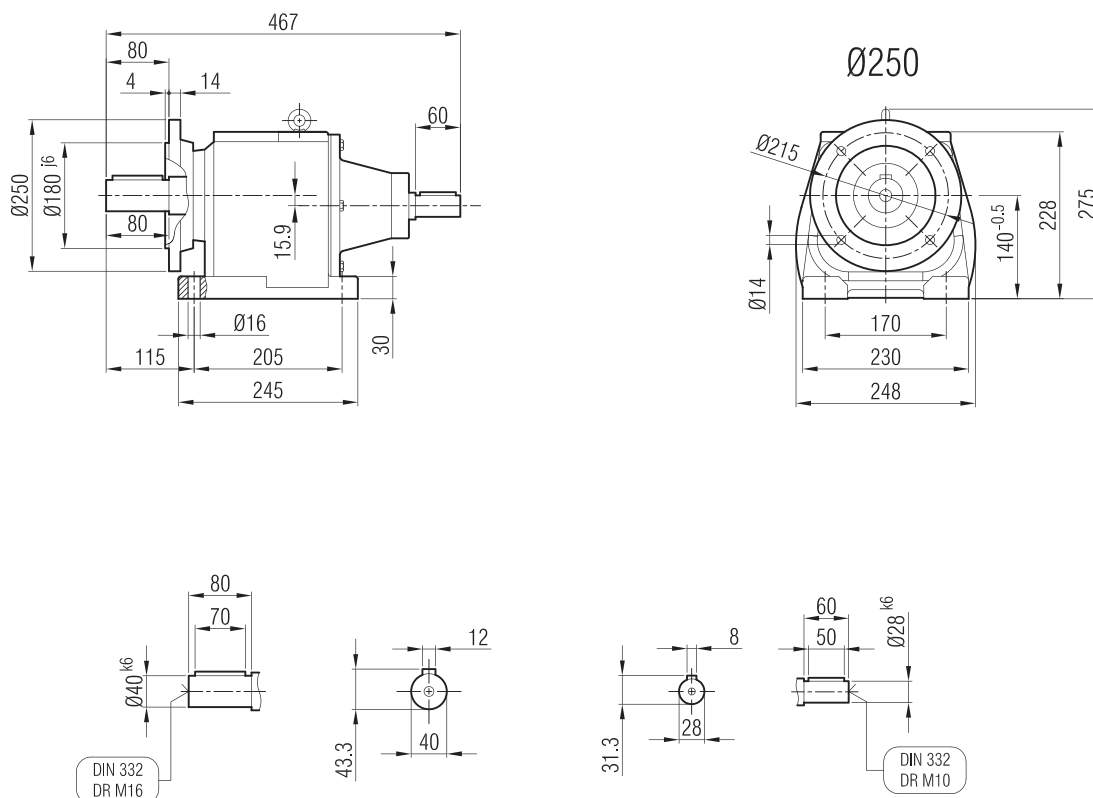


IRF 72
IRF 73





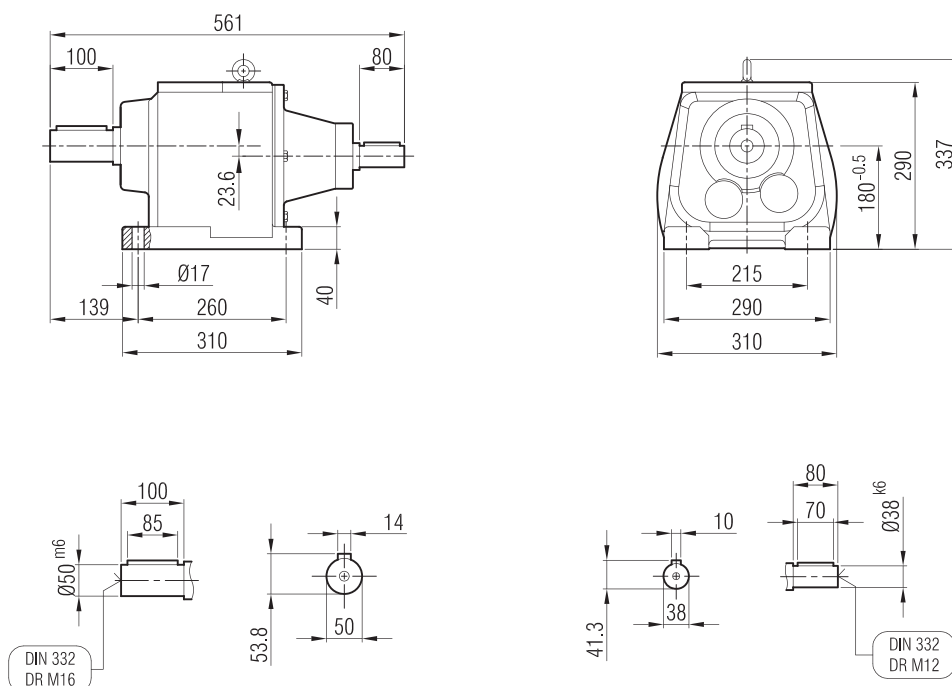
İRAF 72
İRAF 73





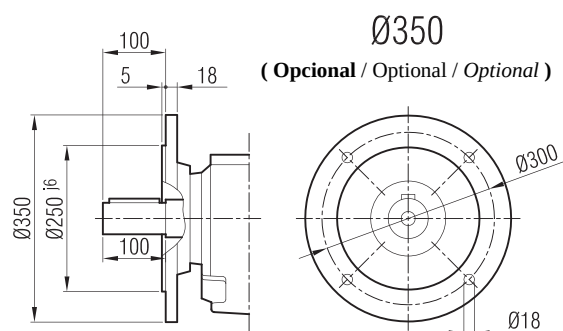
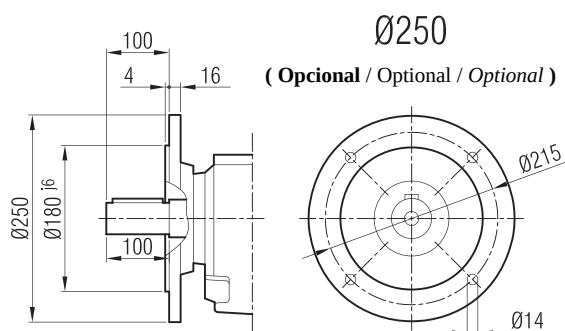
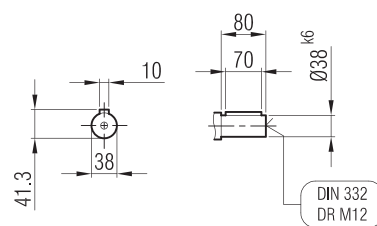
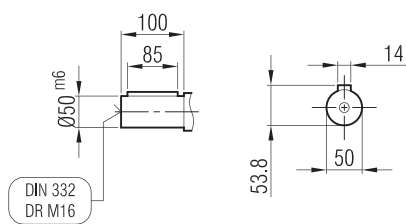
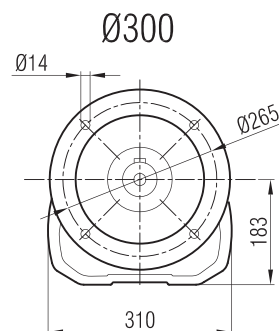
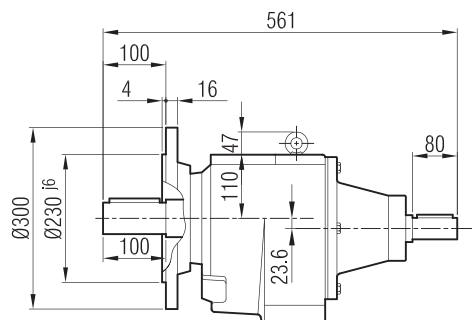
IRA 82

IRA 83



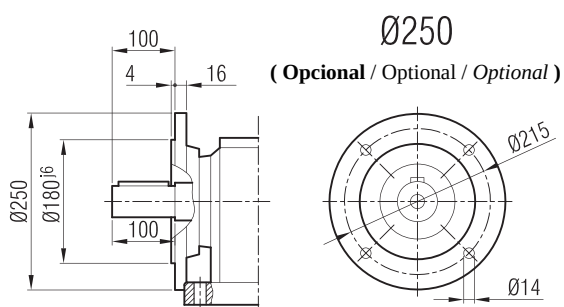
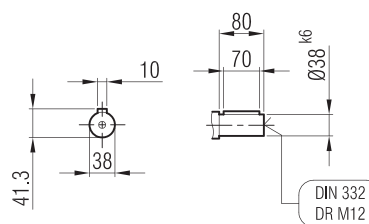
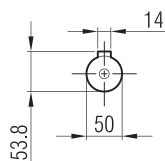
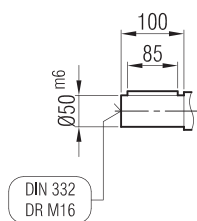
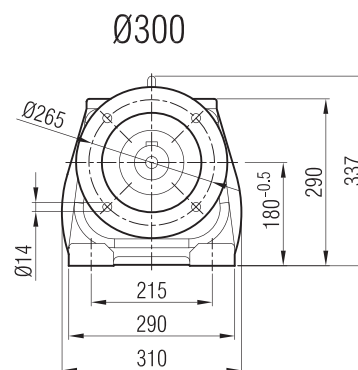
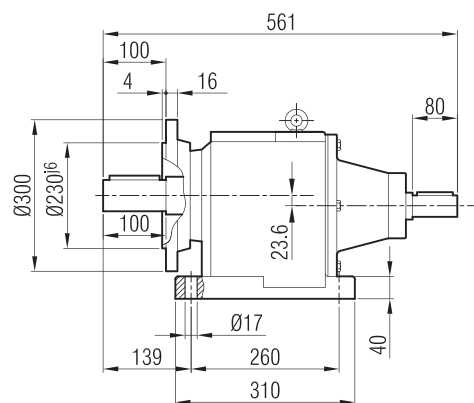


IRF 82
IRF 83

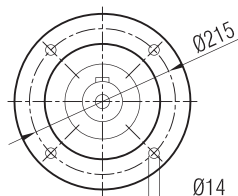




İRAF 82
İRAF 83



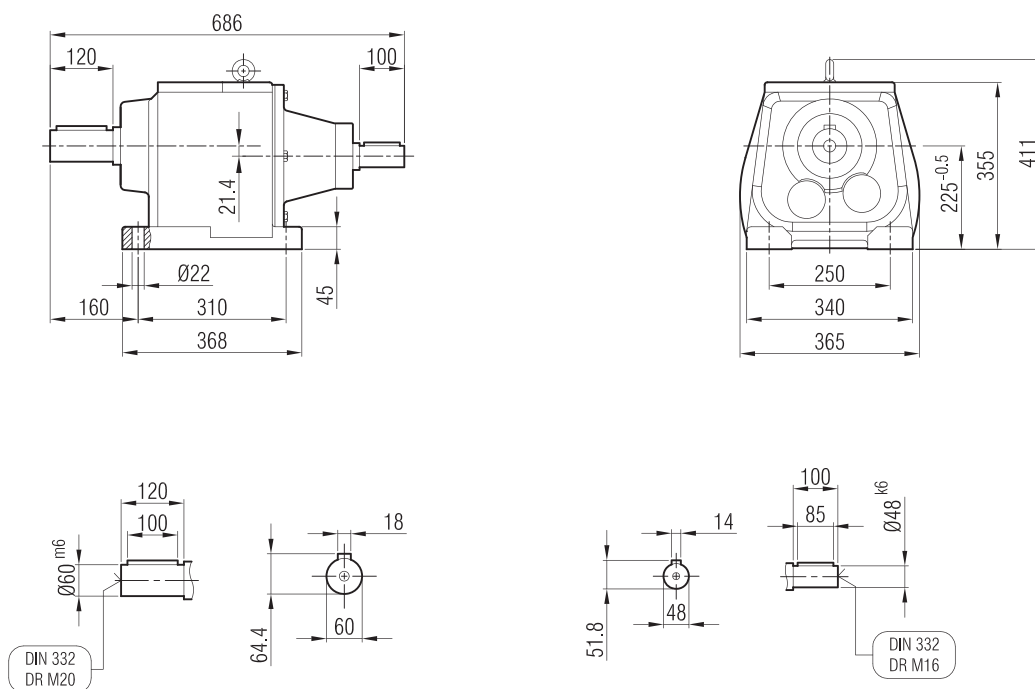
(Opcional / Optional / Optional)





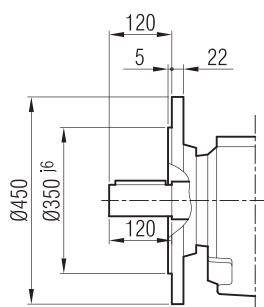
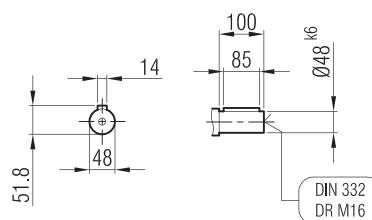
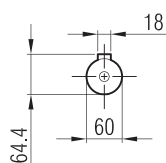
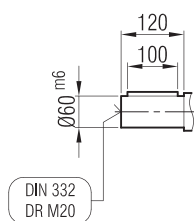
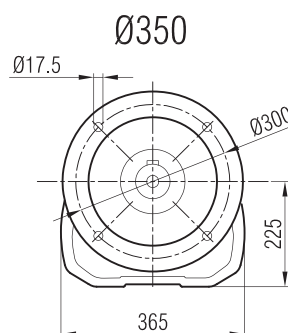
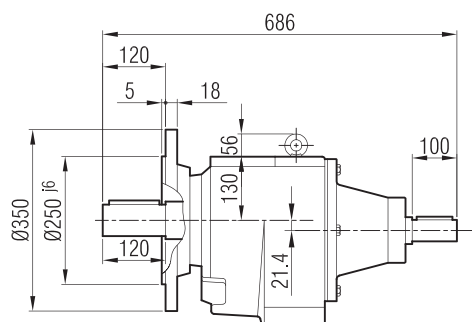
IRA 92

IRA 93

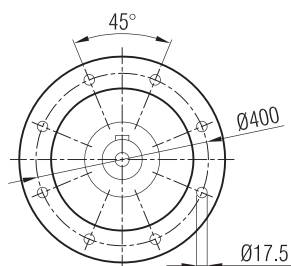




IRF 92
IRF 93

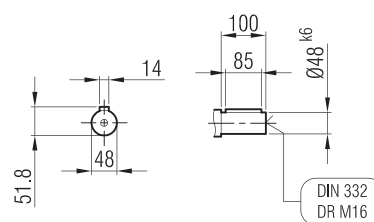
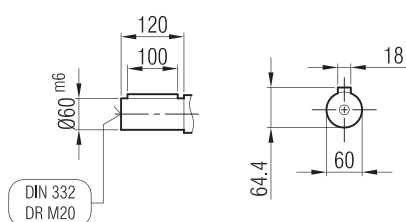
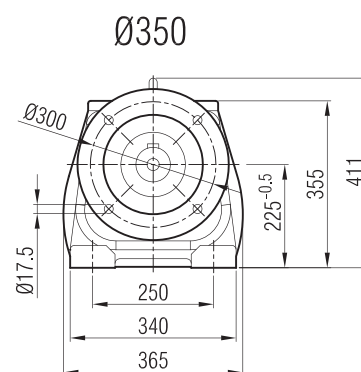
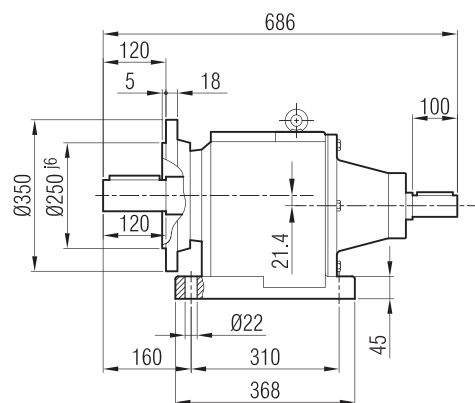


Ø450
(Opcional / Optional / Optional)





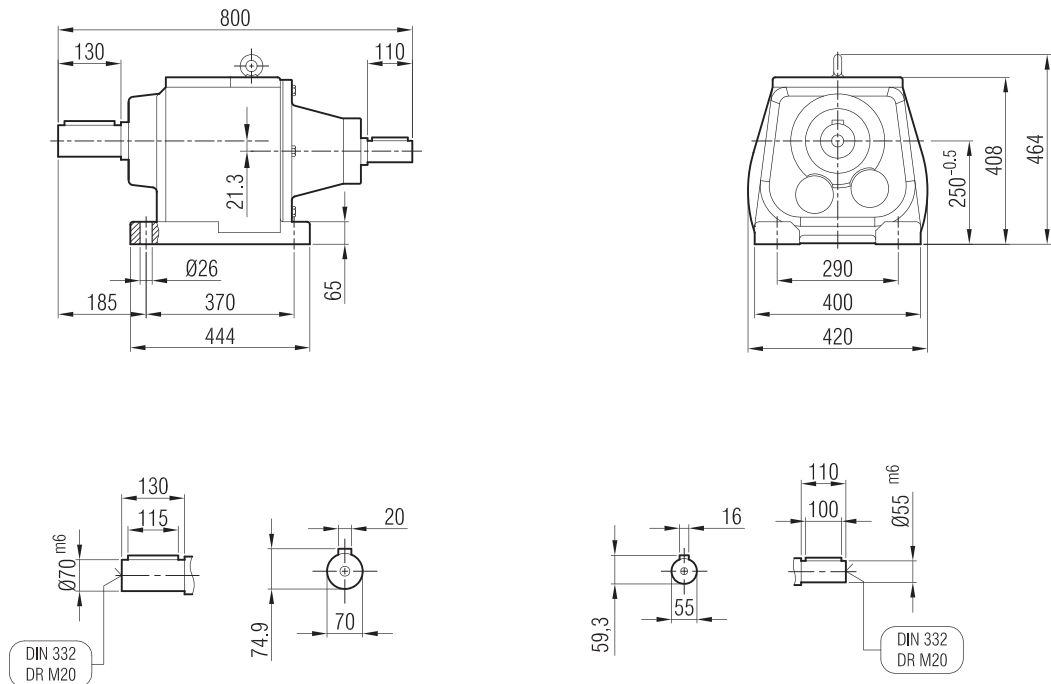
İRAF 92
İRAF 93





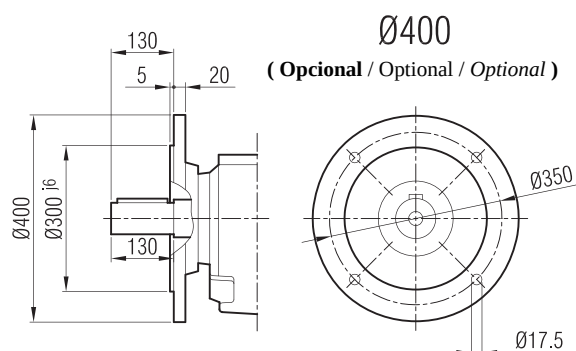
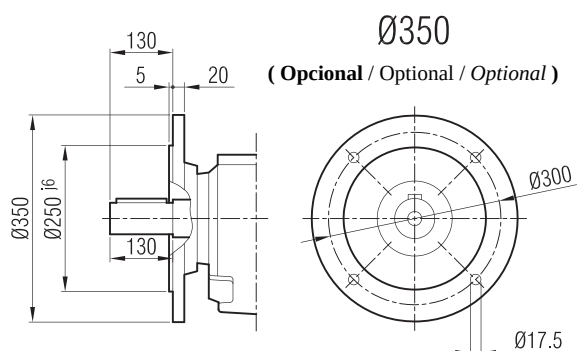
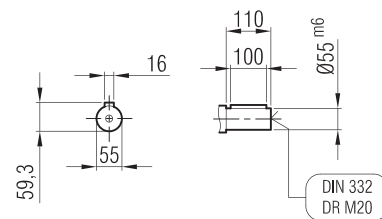
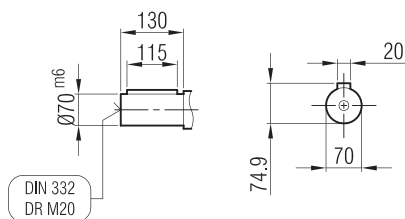
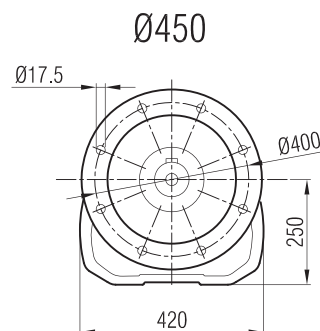
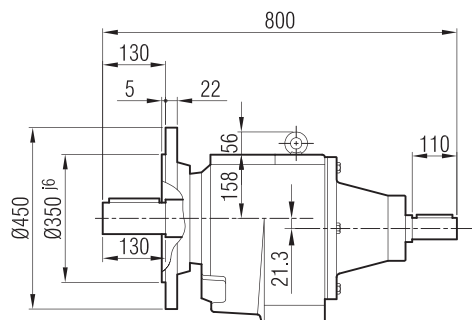
IRA 102

IRA 103





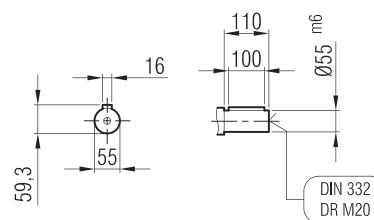
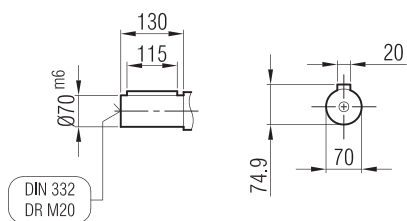
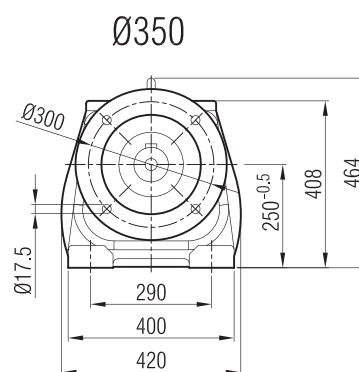
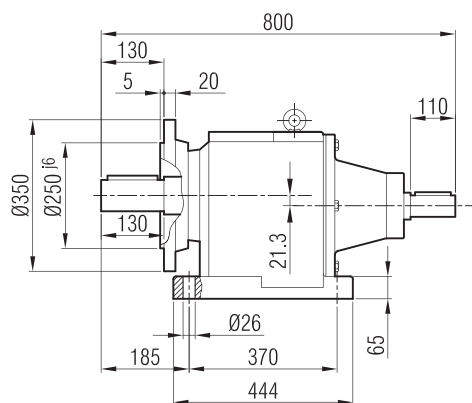
İRF 102
İRF 103





İRAF 102

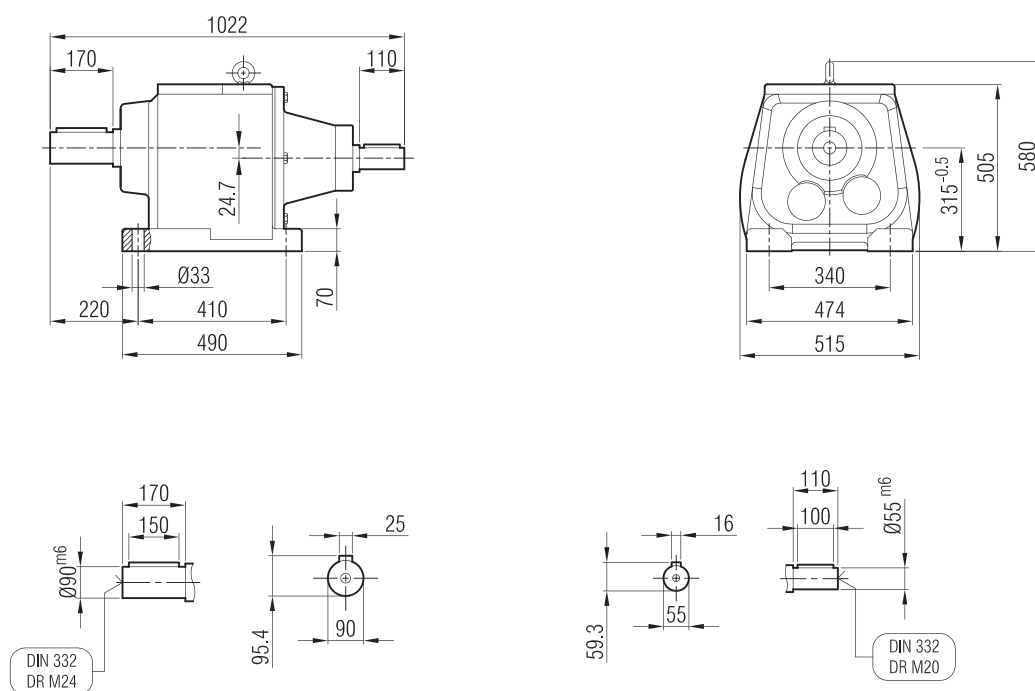
İRAF 103





IRA 122

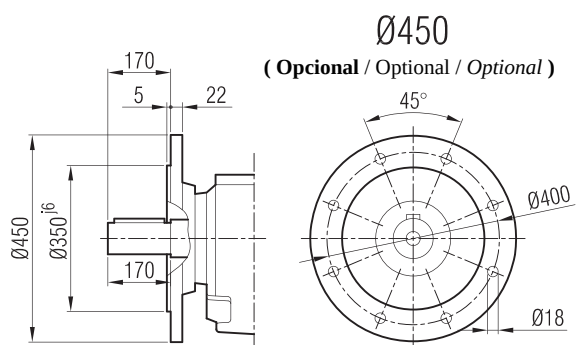
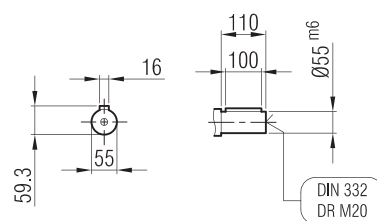
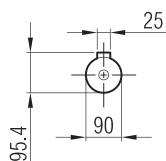
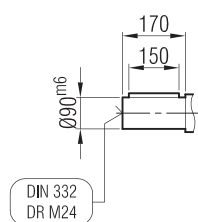
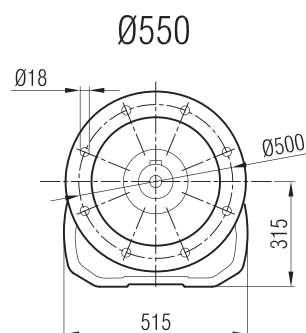
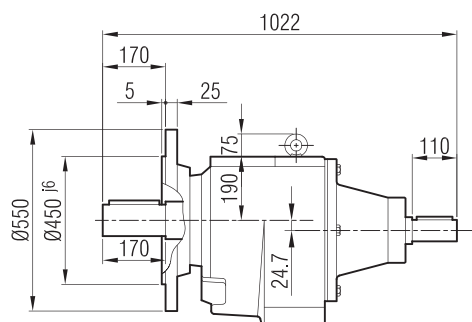
IRA 123





IRF 122

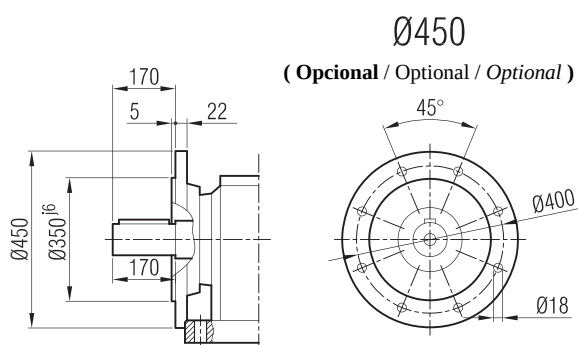
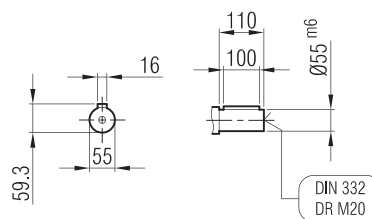
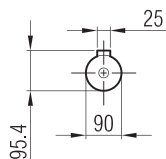
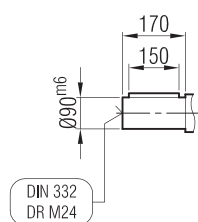
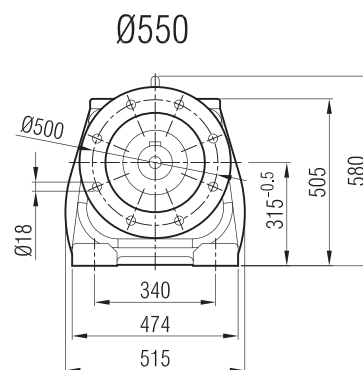
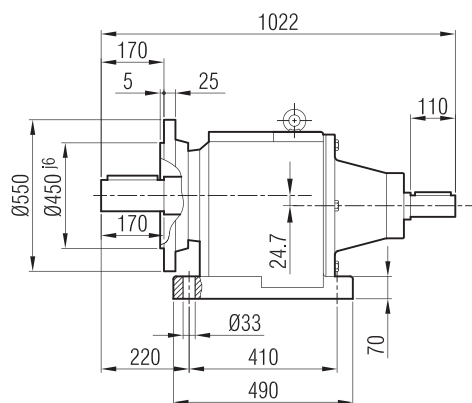
IRF 123



Ø450
(Opcional / Optional / Optional)

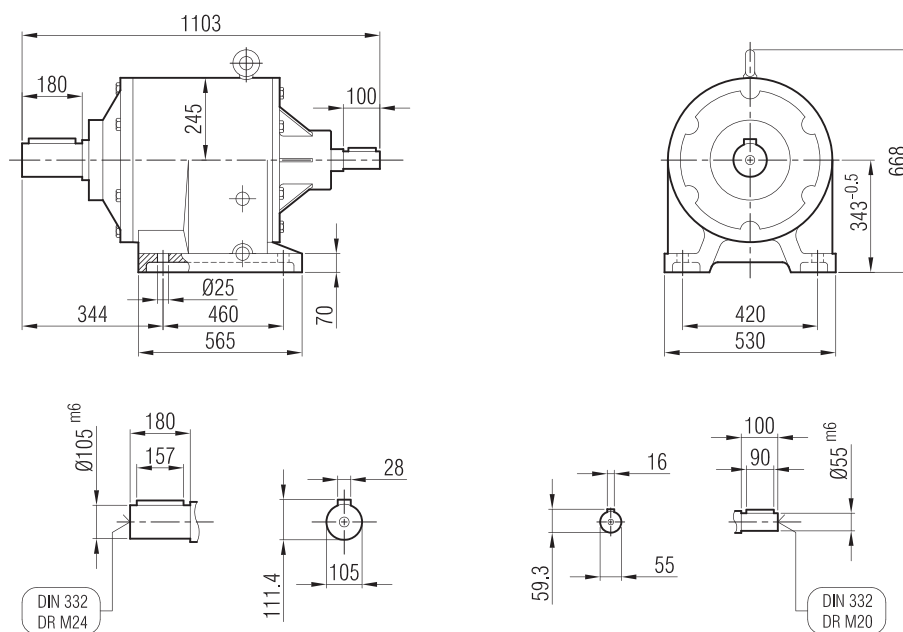


İRAF 122
İRAF 123

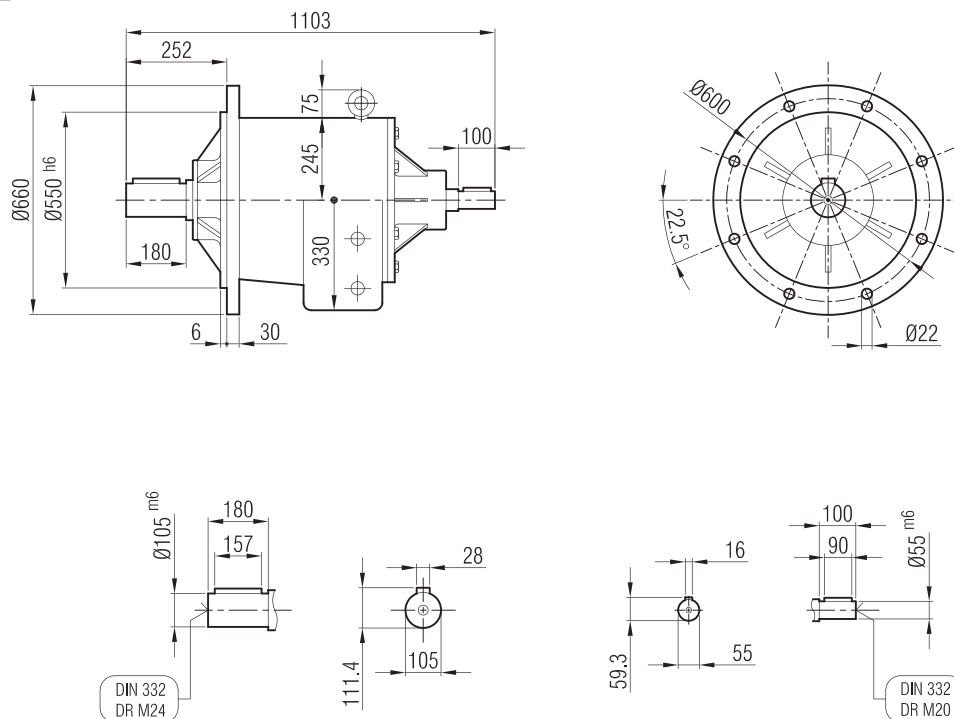




IRA 151

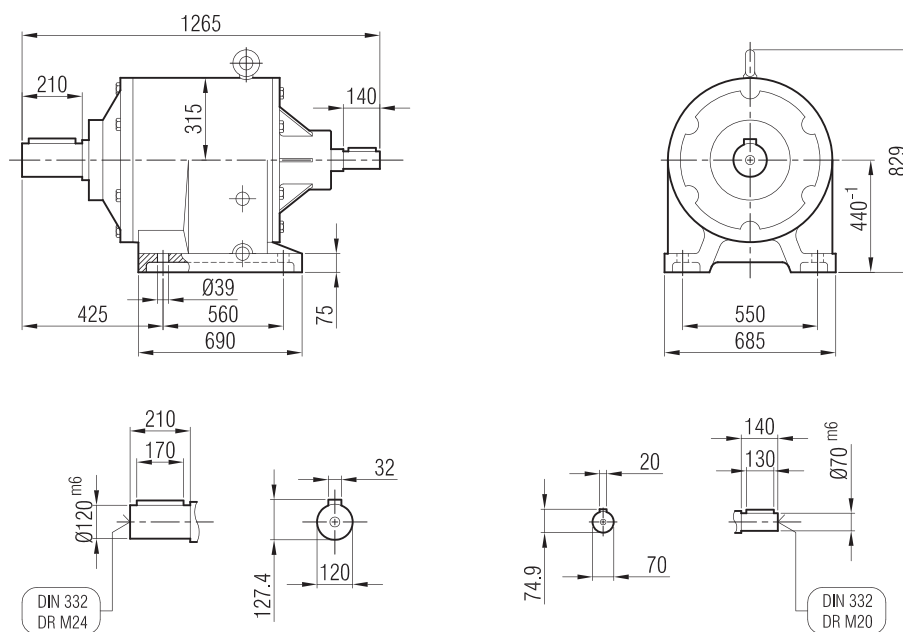


IRF 151

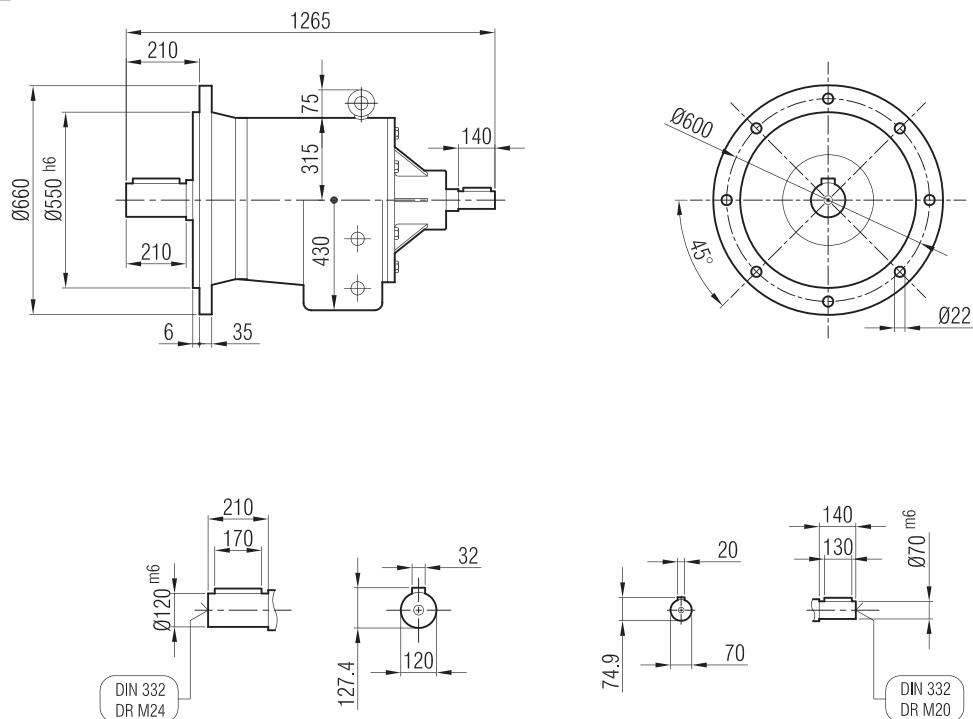




IRA 181



İRF 181



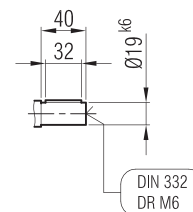
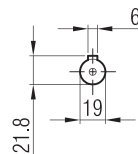
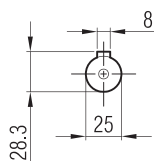
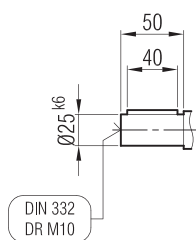
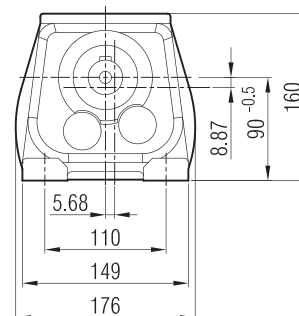
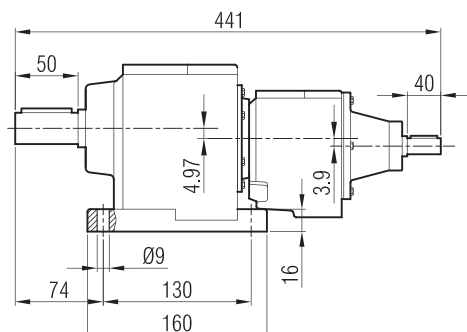


IRA 52 IR 42

IRA 52 IR 43

IRA 53 IR 42

IRA 53 IR 43



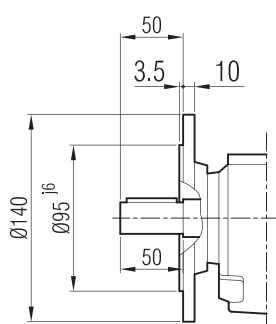
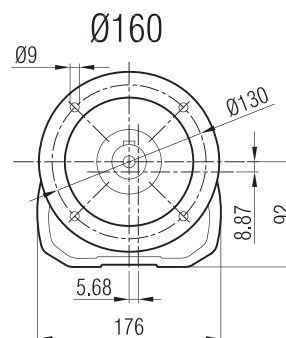
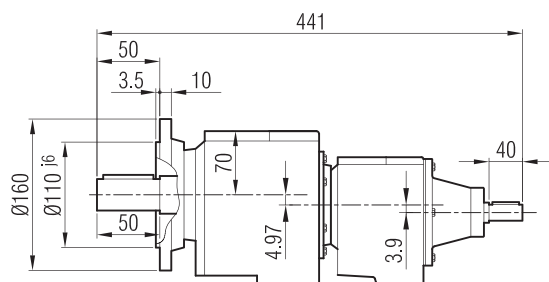


İRF 52 İR 42

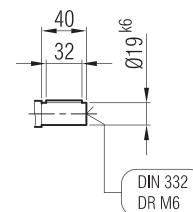
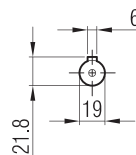
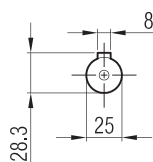
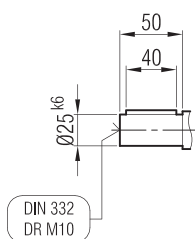
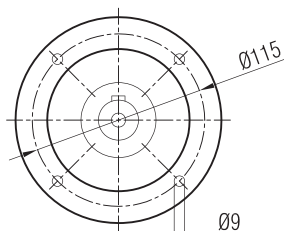
İRF 52 İR 43

İRF 53 İR 42

İRF 53 İR 43



Ø140
(**Opcional** / Optional / *Optional*)

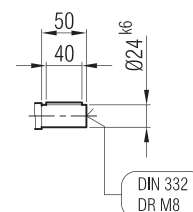
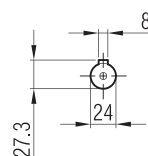
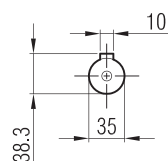
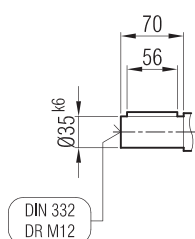
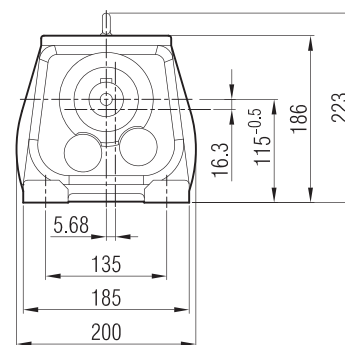
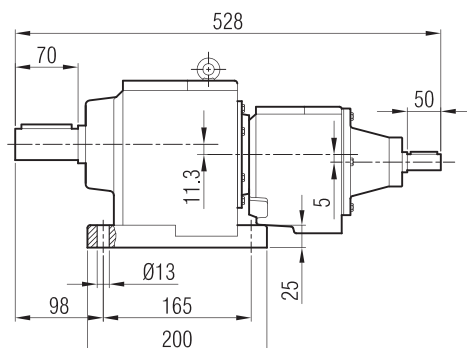




IRA 62 IR 52

IRA 63 IR 52

IRA 63 IR 53

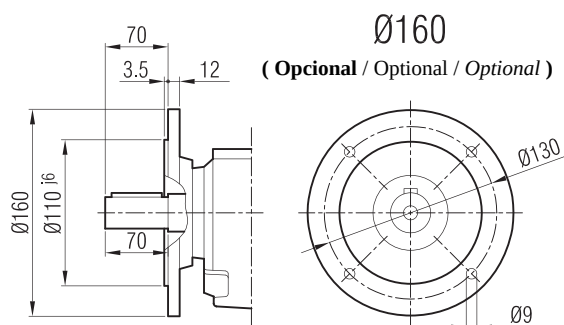
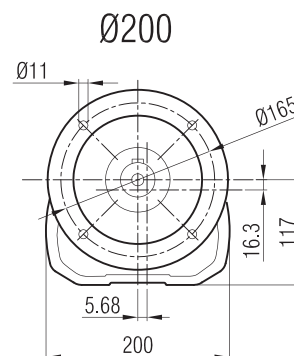
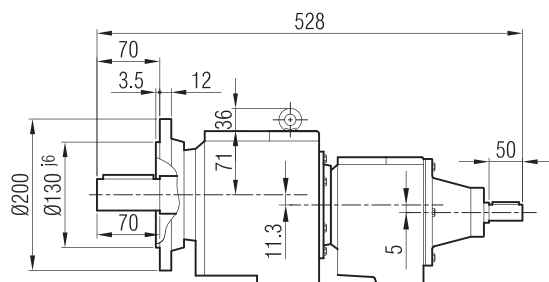




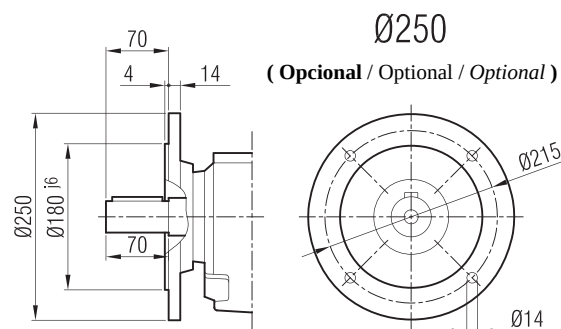
İRF 62 İR 52

İRF 63 İR 52

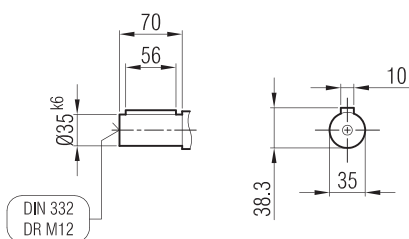
İRF 63 İR 53



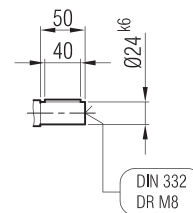
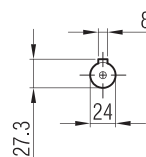
Ø160
 (Opcional / Optional / Optional)



Ø250
 (Opcional / Optional / Optional)



DIN 332
 DR M12



DIN 332
 DR M8

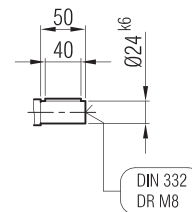
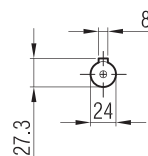
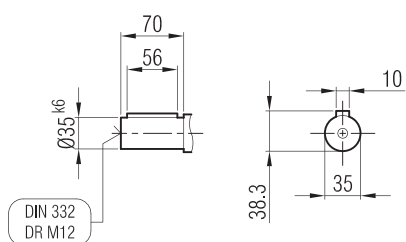
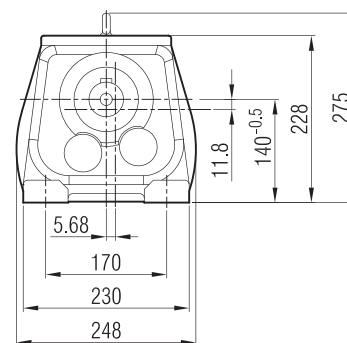
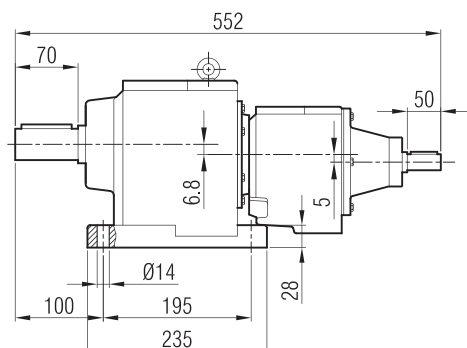


IRA 721 IR 52

IRA 721 IR 53

IRA 731 IR 52

IRA 731 IR 53



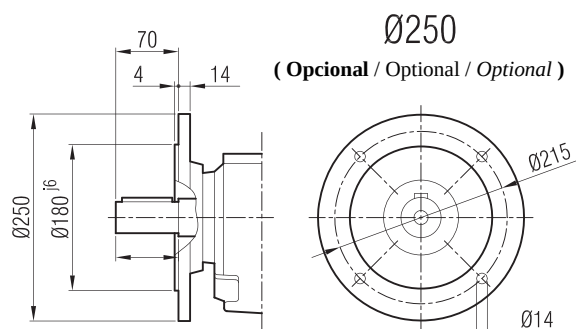
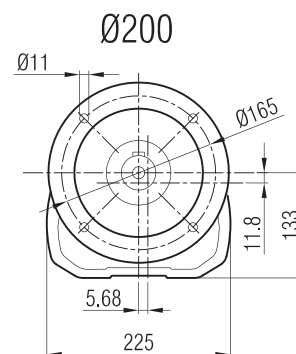
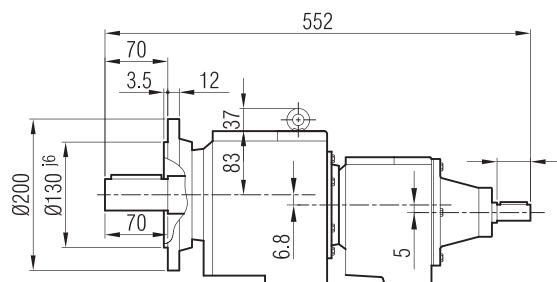


İRF 721 İR 52

İRF 721 İR 53

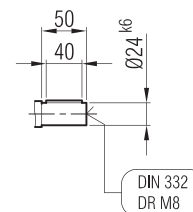
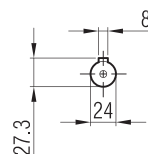
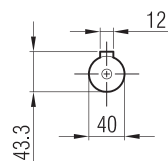
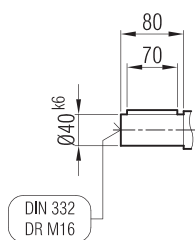
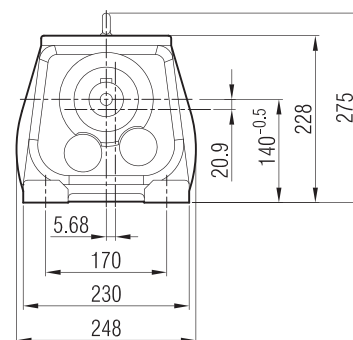
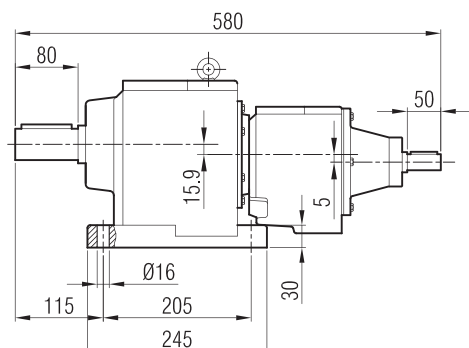
İRF 731 İR 52

İRF 731 İR 53





IRA 72 IR 53
IRA 73 IR 52
IRA 73 IR 53

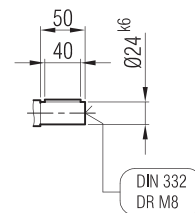
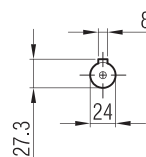
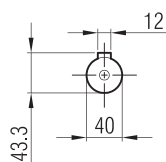
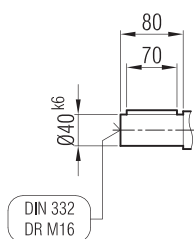
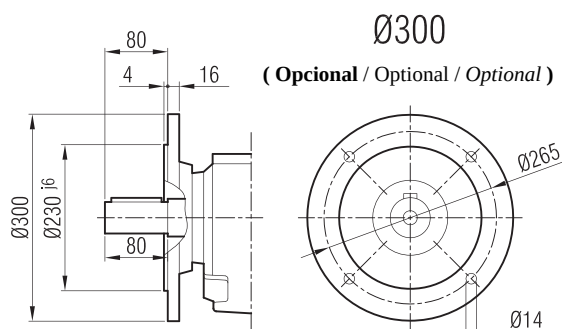
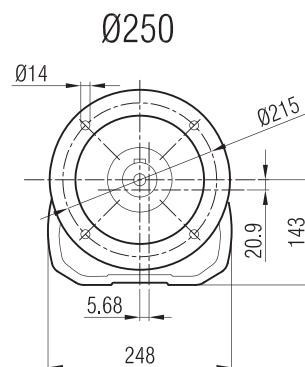
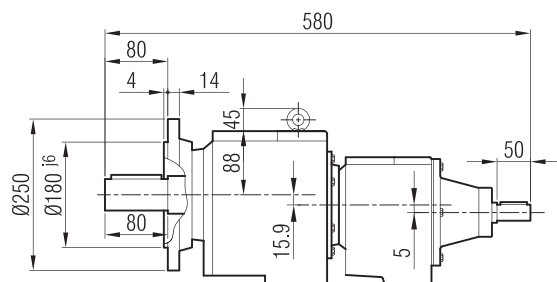




İRF 72 İR 53

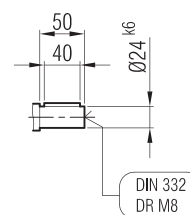
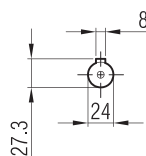
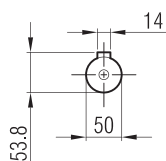
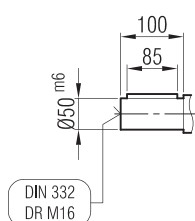
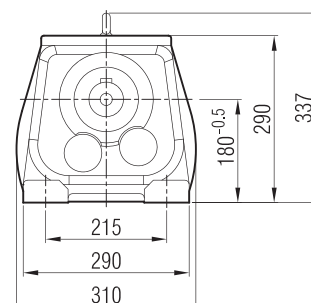
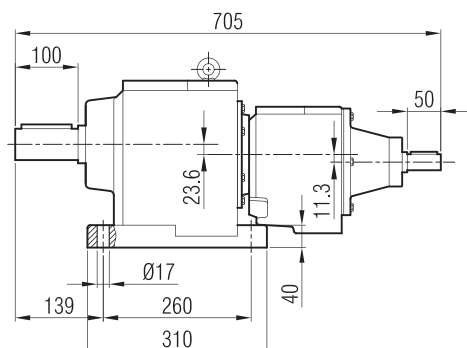
İRF 73 İR 52

İRF 73 İR 53



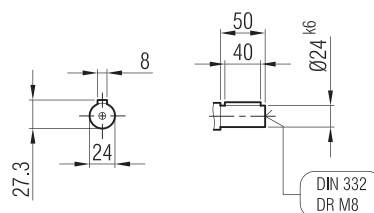
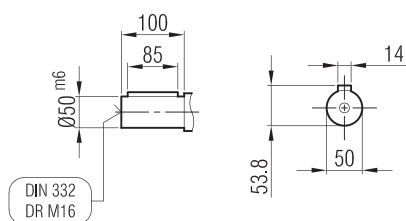
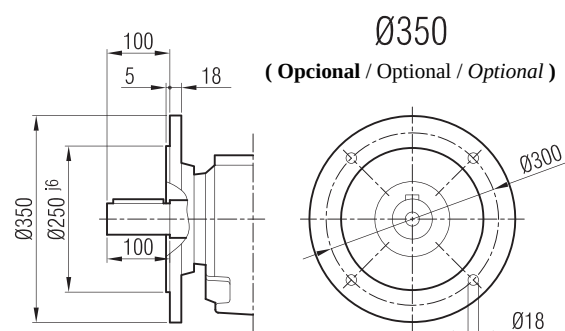
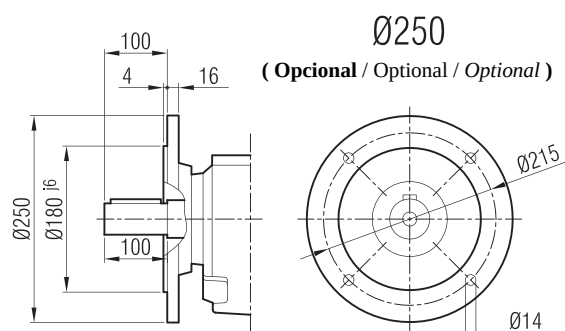
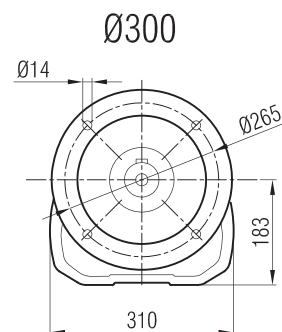
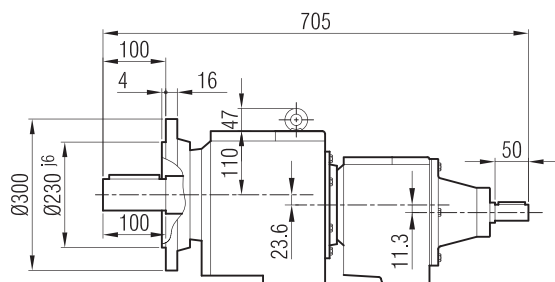


IRA 82 IR 63
IRA 83 IR 63



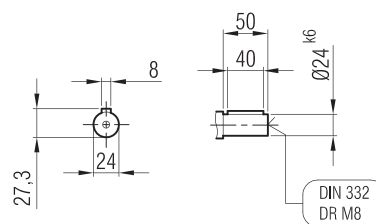
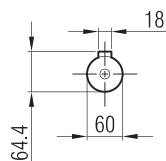
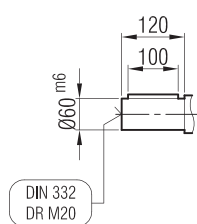
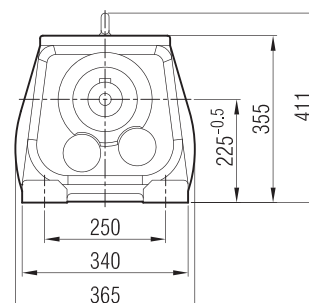
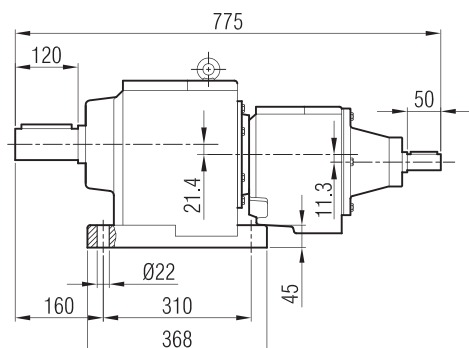


İRF 82 İR 63
İRF 83 İR 63





IRA 92 IR 62
IRA 93 IR 62
IRA 93 IR 63

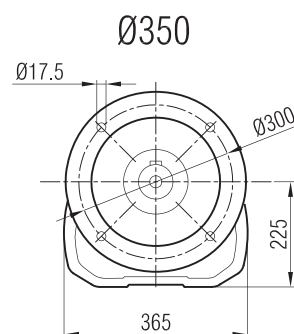
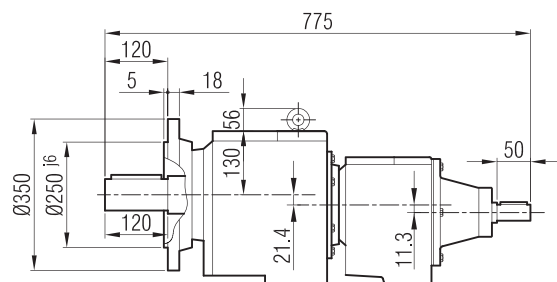




İRF 92 İR 62

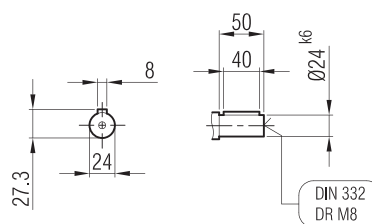
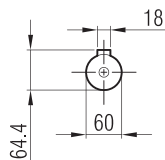
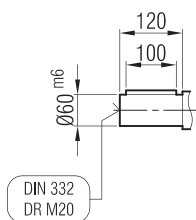
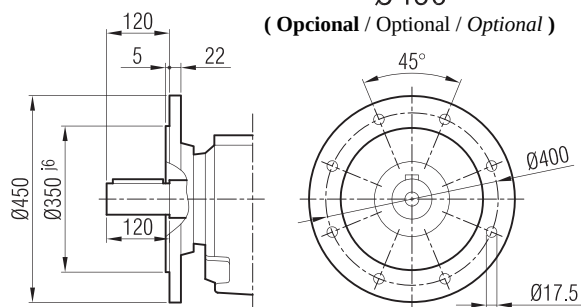
İRF 93 İR 62

İRF 93 İR 63



Ø450

(**Opcional** / Optional / *Optional*)



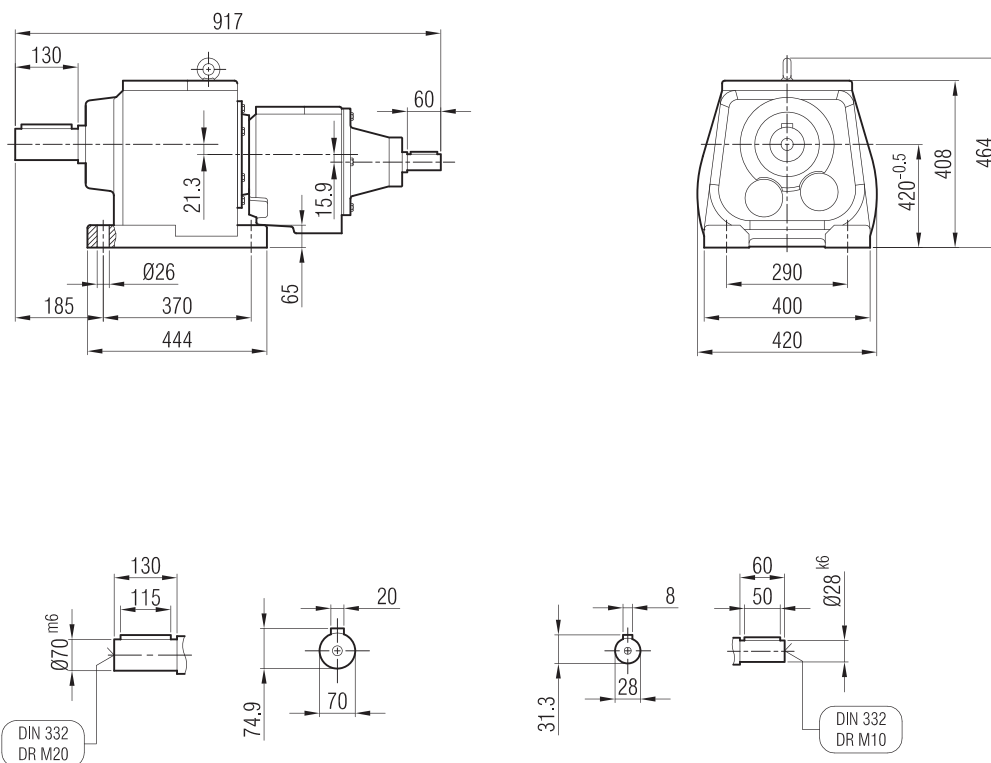


IRA 102 IR 72

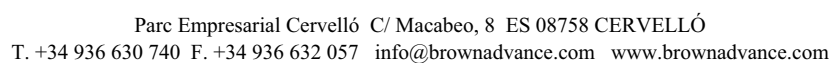
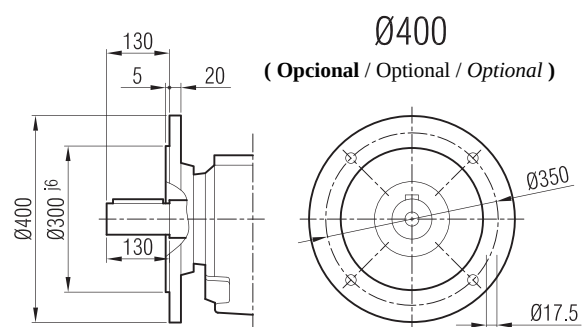
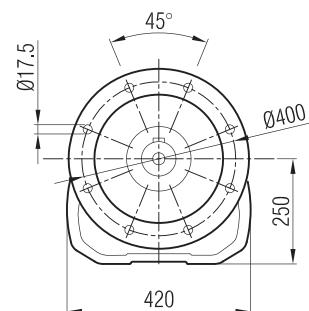
IRA 102 IR 73

IRA 103 IR 72

IRA 103 IR 73



Ø450



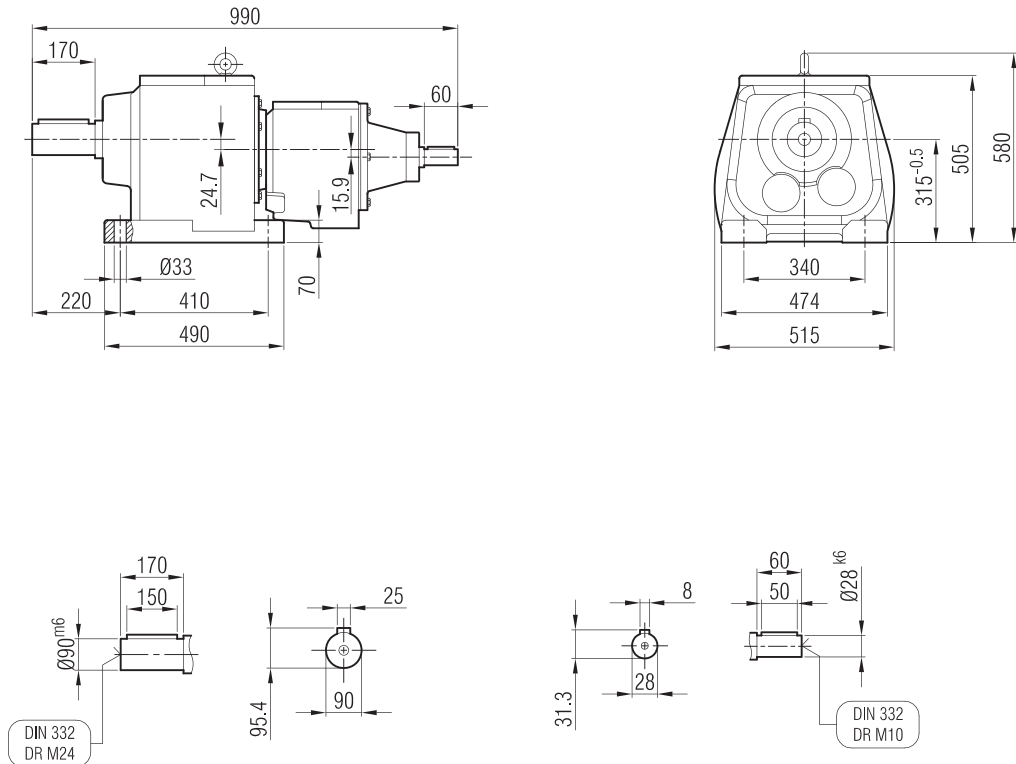


İRA 122 İR 72

İRA 122 İR 73

İRA 123 İR 72

İRA 123 İR 73



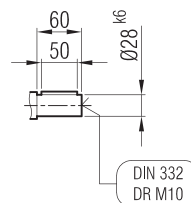
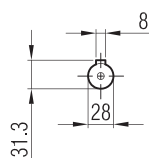
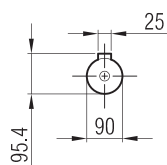
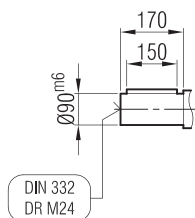
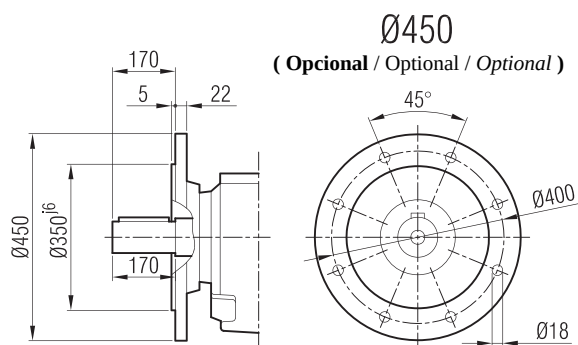
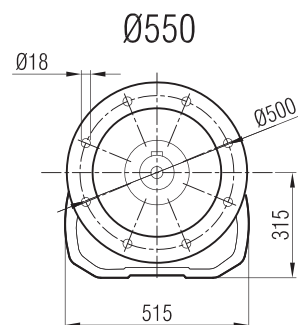
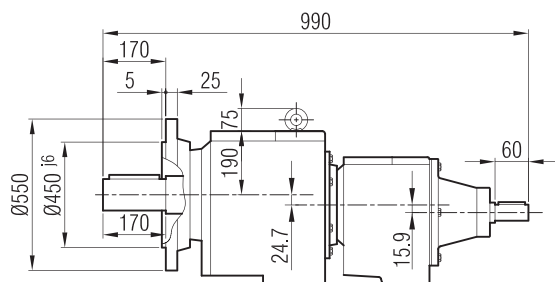


İRF 122 İR 72

İRF 122 İR 73

İRF 123 İR 72

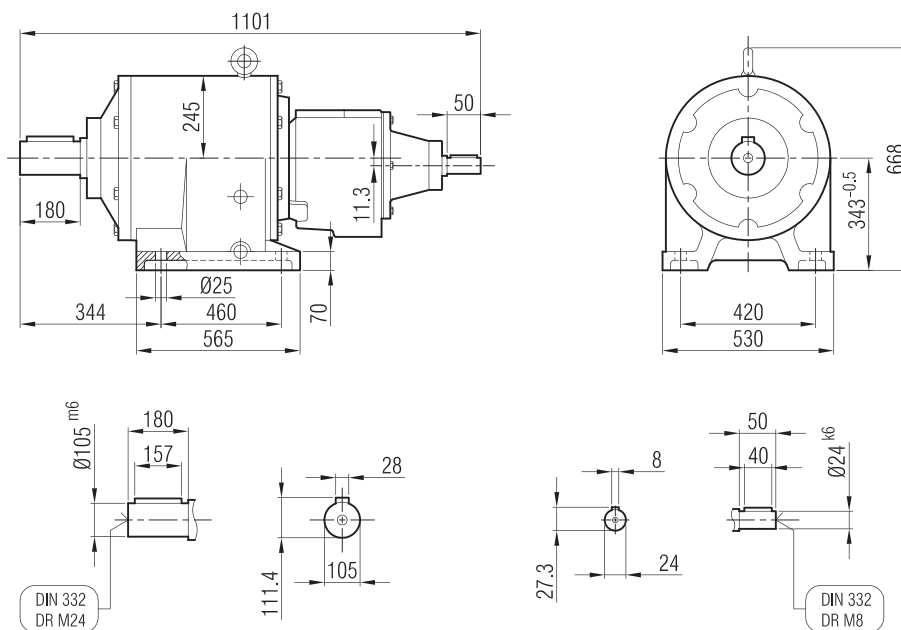
İRF 123 İR 73





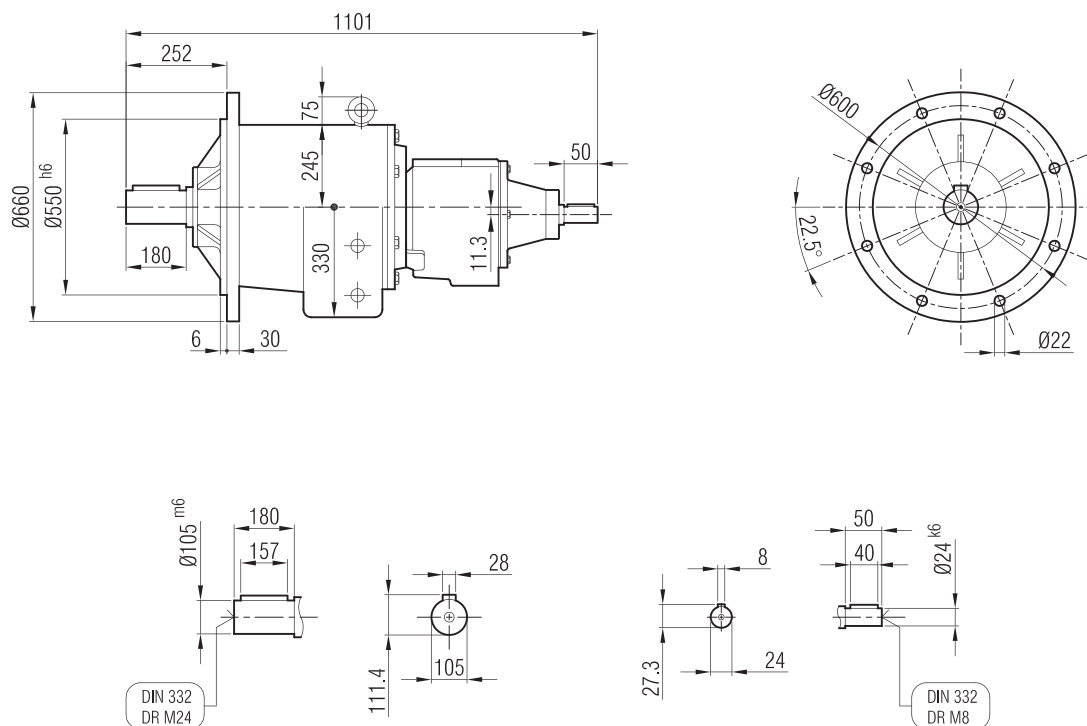
İRA 151 İR 62

İRA 151 İR 63



İRF 151 İR 62

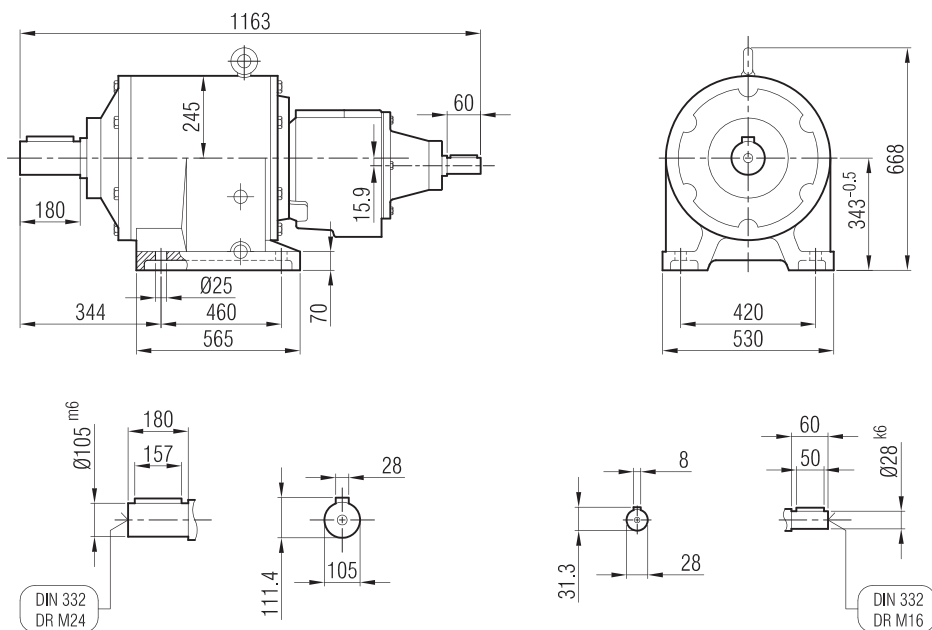
İRF 151 İR 63





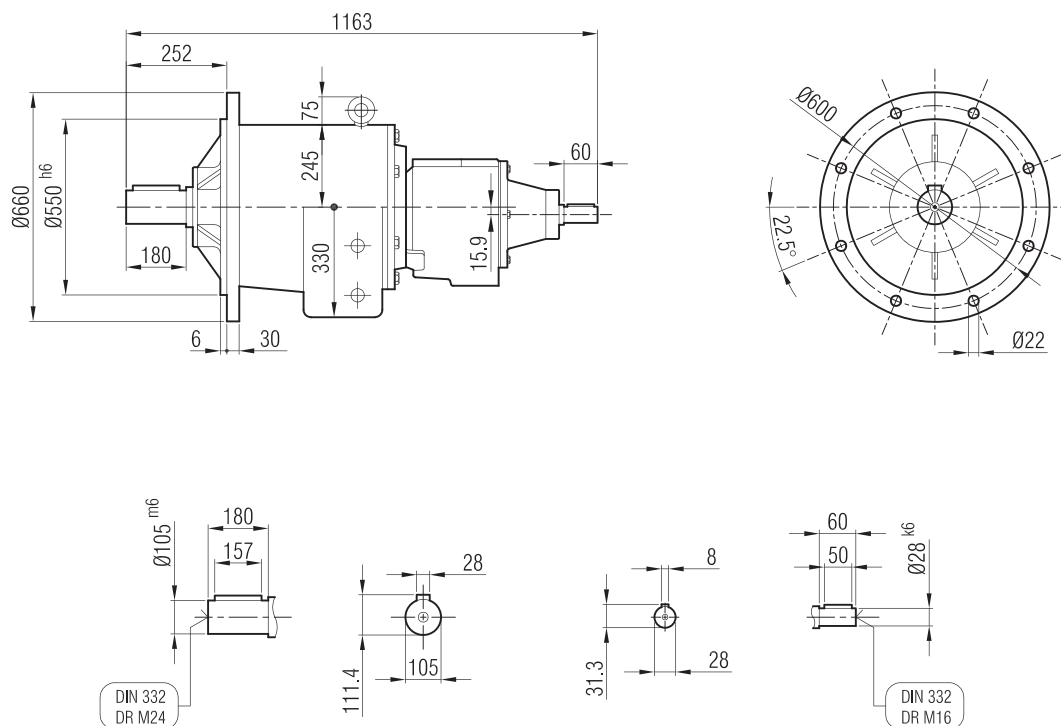
İRA 151 İR 72

İRA 151 İR 73



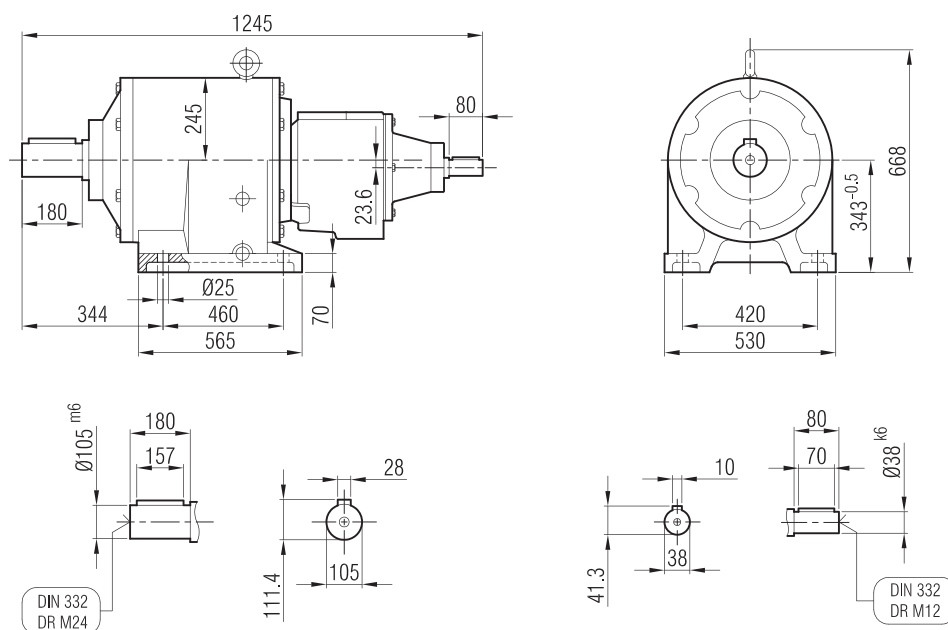
İRF 151 İR 72

İRF 151 İR 73





İRA 151 İR 82
İRA 151 İR 83



İRF 151 İR 82
İRF 151 İR 83

