BRA Series
HCW [H]igh [C]leaning [W]ashdown
Serie Hygienic, IP69K, aluminum
Hi-Cleaning, NTT®

POWER TRANSMISSION

- ❑ *0,12..2,2kW – 2, 4 poles* **IE4**
- ❑ *IEC 63..90 B14*
- ❑ *IP69K degree of protection*
- ❑ *Class F – IC410 - DUTY S1*
- ❑ *aluminum «Hy-Cleaning» coating*

Aluminum "Hi-Cleaning" motors, for food processing, pharmaceutical and other applications requiring extreme cleanliness and frequent washdowns

The aluminum motors HCW are proposed as an alternative to the "twin" HYW series 316L, where there are no extreme conditions require solely a stainless steel solution.

They are used in food, beverage or pharmaceutical production plants where the motors - along with other parts - are often subjected to **high pressure water jets** (sometimes at high temperatures) or even more **aggressive cleaning agents**, that on the contrary can cause damage to other kind of motor, or even contaminate the end product.

The HCW range has **no cooling fins** and it is painted with **an innovative "Hi-Cleaning" coating** with nano particles, which makes the surface very easy to clean and resistant to major aggressive used in sanitizing. This means that waste products can be washed away easily leaving no residue and the motor can be used with **confidence in food and or pharmaceutic processing areas**.

BROWN ADVANCE

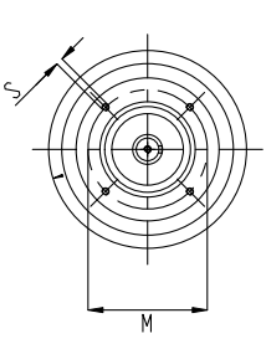
IE4

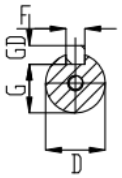
P_N [kW]	Motor				n_N [min^{-1}]	M_N [Nm]	I_N [A]	cosφ	η 100%	η 75%	η 50%	M_S/M_N	M_{max}/M_N	I_S/I_N	J_0 [kg m^2]	W B14 [kg]	W B5 [kg]
0,18	BRA	63	A	2	2820	0,61	0,42	0,82	75,2	73,5	71,6	3,0	4,0	6,0	0,0008	6,3	
0,25	BRA	63	B	2	2850	0,84	0,58	0,83	77,5	76,6	73,5	3,3	4,0	7,0	0,0011	7,5	
0,37	BRA	71	A	2	2840	1,24	0,83	0,78	81,0	80,0	79,8	5,4	5,5	9,0	0,0014	8,9	
0,55	BRA	71	B	2	2840	1,85	1,2	0,85	81,5	80,5	80,0	5,7	6,3	9,6	0,0017	10,6	(*)
0,75	BRA	80	A	2	2900	2,47	1,5	0,81	87,0	87,6	85,8	4,1	4,6	11,0	0,0031	14,6	
1,1	BRA	80	B	2	2900	3,62	2,1	0,86	88,0	88,0	86,2	4,2	5,0	11,5	0,0040	18,1	
1,5	BRA	90	S	2	2910	4,92	2,9	0,86	88,6	88,0	87,7	4,4	4,7	12,0	0,0053	22,1	
2,2	BRA	90	L	2	2910	7,22	4,1	0,86	89,4	90,0	89,9	4,6	4,7	12,6	0,0070	27,9	
0,12	BRA	63	A	4	1440	0,80	0,44	0,57	72,0	70,2	67,5	2,4	3,1	5,6	0,0011	6,3	
0,18	BRA	63	B	4	1440	1,2	0,58	0,62	75,0	72,0	69,9	2,4	3,1	5,8	0,0015	7,5	
0,25	BRA	71	A	4	1440	1,7	0,64	0,73	77,9	75,0	71,5	2,7	3,0	6,1	0,0018	8,9	
0,37	BRA	71	B	4	1440	2,5	0,9	0,73	81,1	79,8	77,0	3,2	3,4	6,9	0,0023	10,6	
0,55	BRA	80	A	4	1460	3,6	1,3	0,73	83,9	82,1	80,3	3,7	4,8	9,1	0,0041	14,6	(*)
0,75	BRA	80	B	4	1460	4,9	1,7	0,74	85,7	86,5	83,8	4,2	5,0	10,0	0,0053	18,1	
1,1	BRA	90	S	4	1460	7,2	2,4	0,78	87,2	87,3	85,4	4,0	4,7	10,1	0,0075	22,1	
1,5	BRA	90	L	4	1460	9,8	3,2	0,78	88,2	88,1	86,4	4,5	5,1	10,8	0,010	27,9	

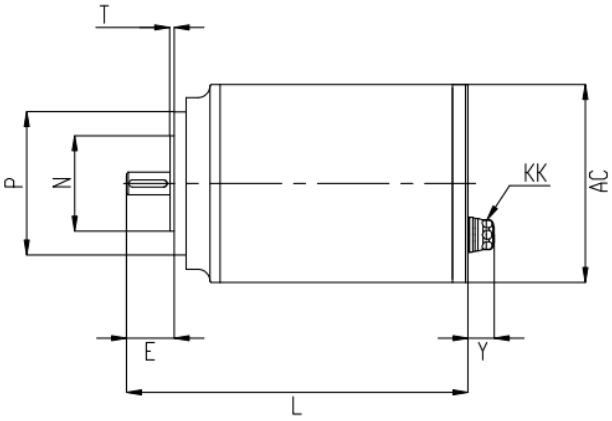
(*) for B5 execution, consult us

Certification for food contact The HCW coating is suitable for contact with food; The test was carried out according to the requirements of the following normative documents: UNI EN 1186/1:2003 Materials and articles in contact with food, D.M. 21/03/1973 and subsequent amendments, the European Directives 2002/72/EC and 1935/2004/EC

Test conduced with dirt agents Corrosion «Dirt» tests have been conducted at room temperature on a peci men, directly depositing the substances on the body. After deposition for 24 hours, the surface remains unchanged







Size	Bearings		CableGlands	IM B5 (*)						IM B14					
	DE	NDE	KK	M	N	P	R	n x S	T	M	N	P	R	n x S	T
63	6202 2RZ	6202 2RZ	M16X1.5	(*) for B5 execution, consult us						75	60 j6	90	≤0	4xM5	2,5
71	6202 2RZ	6202 2RZ	M20X1.5							85	70 j6	105	≤0	4xM6	2,5
80	6205 2RZ	6203 2RZ	M20X1.5							100	80 j6	120	≤0	4xM6	3
90S/L	6205 2RZ	6203 2RZ	M25X1.5							115	95 j6	140	≤0	4xM8	3

Size	Shaft					General		
	D	E	F	G	GD	AC	Y	L
63A	11 j6 M4	23	4	8,5	4	131	22	228
63B								243
71A	14 j6 M5	30	5	11	5	131	25	265
71B								285
80A	19 i6 M6	40	6	15,5	6	166	25	268
80B								288
90S	24 j6 M8	50	8	20	7	166	30	333
90L								373

CASE HISTORIES

BISCUITS PROCESSING

Traditional aluminum motor after 1 year working

HCW motor after 1 year working

HCW motor after 2 years working in salt envirnoment

HCW motor after 2 years working in a vinegar cell and in comparison with reducer with traditional coating system

HCW motor Boat washing