

SINGLE-PHASE AND THREE-PHASE MOTORS



HERCULES
ELECTRIC MOTORS



Hercules Motores is located in the city of Timbó, in Santa Catarina, Brazil. Operating in the market since 2005, it has the best partners in technology, the latest innovations in electric motors, and the best quality in service, services, and products.

We offer innovative solutions, supporting our clients in the development of their projects, the improvement of their processes and their market growth.

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THREE-PHASE LINE IP 55

The H-ECO three-phase motors were developed to meet industrial applications. High-efficiency motors, providing a significant reduction in electrical energy consumption. Great cost-benefit ratio, low noise and vibration levels combined with maximum quality, transformed into reliability and savings.

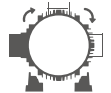
Applications: Reducers, fans, exhaust fans, air conditioners, heaters and other applications for general use in the industry.



Image for illustrative purposes



Frame
injected in high-strength
aluminum for a lighter
product



Removable feet:
Flexibility to change the
structural form



Deflector cover injected in
High-Resistance Polymer



Junction box:
possibility to rotate
in 90° turns



Insulation Class F:
Withstands up to 155°C



Service Factor 1,25

EFFICIENCY AND POWER FACTOR
APPROVED BY INMETRO



PROCEL

NBR - 17094-1



INMETRO
Inmetro Registration
XXXXXXXXXX

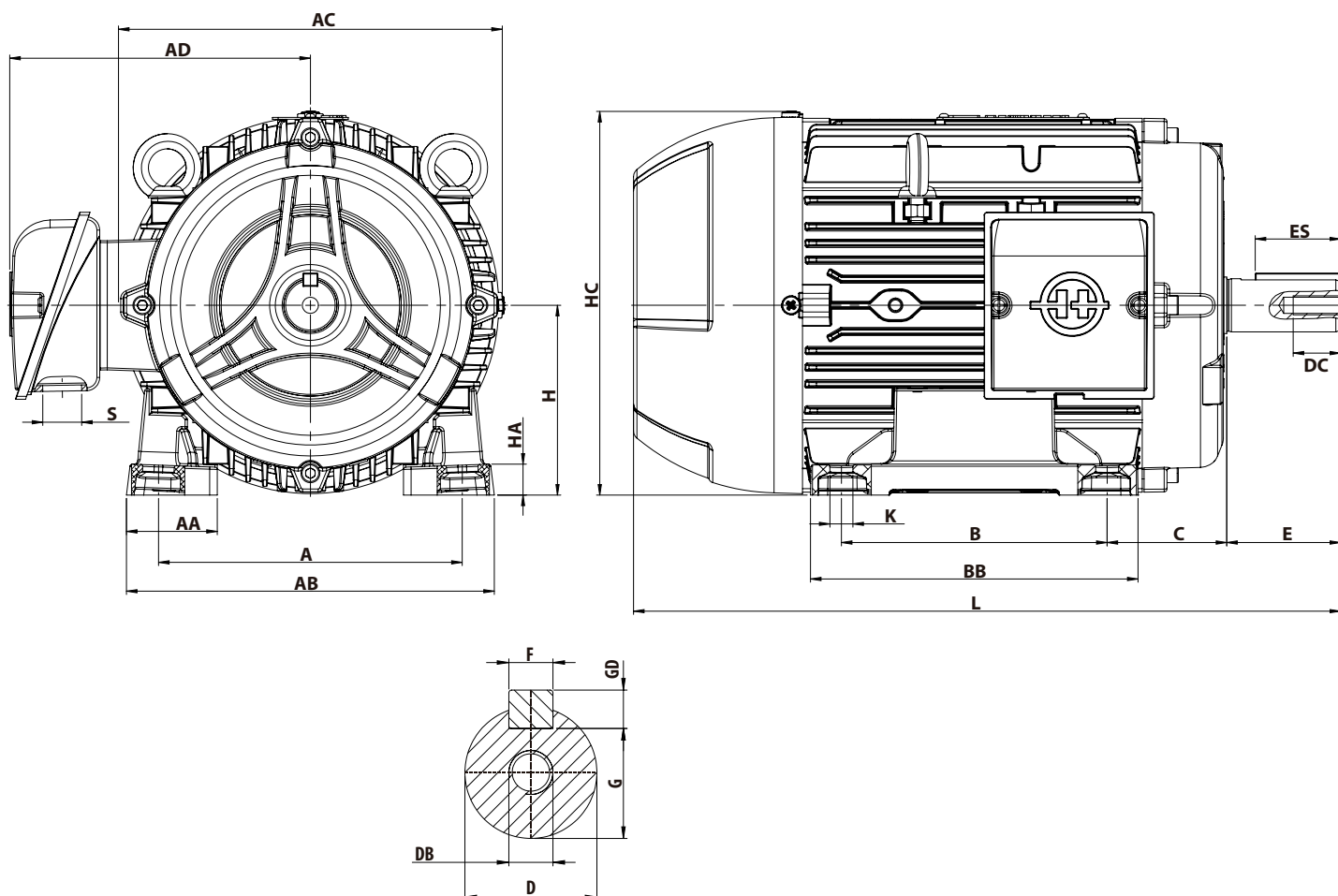
<http://registro.inmetro.gov.br/consulta/>

CHARACTERISTICS

- Efficiency Index 3 (IR3);
- Frequency 60Hz;
- Bearings sealed by V-rings;
- Drain for condensed water outlet;
- Cable outlet sealed with self-extinguishing foam;
- Mountings with ball bearings;
- Category N;
- Painting: Gray RAL7026;
- IEC63 and IEC71 housing, which can be wound on copper or aluminum wire.

OPTIONAL ITEMS ON REQUEST

- Painting in special colors;
- PTC thermistor;
- Thermostat (bimetallic thermal protector);
- Structural forms in accordance with ABNT NBR 60034-7;
- Frequency 50Hz;
- Shaft in special dimensions;
- Terminal board;
- Special supply voltages;
- Cable clamps;
- Category D;
- Special bearings;
- Stainless steel shaft;
- Retainer;
- FF, FC and C-DIN flanges;
- Heating resistance.



MECHANICAL DATA

Frame	A	AA	AB	AC	AD	B	BB	C	Shaft End								DB	DC	I	J	H	HA	HC	K	L	LL	LM	S	Bearings														
									D	E	ES	F	G	GD	Front	Rear																											
IEC 63	100	32	121	130	123	80	96	40	11	23	14	4	8,5	4	M5 x 0,8	10	* - * - *	M5*	63	12	127	7	211	90	99	RWG 1/2" ou M20 x 1,5			6201-ZZ														
IEC 71	112		138	145	131	90	112	45	14	30	18	5	11	5					71	10	145		249						6203-ZZ	6202-ZZ													
IEC 80 (S)	125	38	151	158	135	100	134	50	19	40	28	6	15	6	M6 x 1	20			M6*	80	15	162	10						316					6204-ZZ	6203-ZZ								
IEC 90 (S)																		323		6205-ZZ	6204-ZZ																						
IEC 90 (L)	140	41	171	176	142	125	154	56	24	50	36	8	20	7	M8 x 1,25			90		181	335																						
IEC 100 (S)																																											
IEC 100 (L)	160	48	194	205	160	140	173	63	28	60	45	8	24	7	M10 x 1,5	25		Ø20	M8	100	16,5	203							373	141	128	BSP 1"			6206-ZZ	6205-ZZ							
IEC 112 (S)							177	70																																	407	423	6207-ZZ
IEC 112 (L)	190	58	223	226	195																	112	19						224						12	454							
IEC 132 (S)																						132	24						270							488							
IEC 132 (M/L)	216	64	256	270	216	140/178 178/203	215 239	89	38	80	63	10	33	8	M12 x 1,75	30																											
IEC 160 (M)						210	256	108	42	110	86		12	37	8	M16 X 2	36			Ø30	M12	160	22	371	14,5	598	191	196	BSP 1 1/2"														
IEC 160 (L)	254	51	292			254	304																																				
IEC 180 (M)																																											
IEC 180 (L)	279	71	322	327	276	241	300	121	48			14	42,5	9								180	29	391	607	667									6311-C3	6211-C3*							

- Aluminum connection box from the IEC 112 housing;
- Motors with IEC 63 housing: 220/380V (6 cables) without terminal board;
- Motors with IEC 71 and IEC 80 housing: 220/380V (6 cables) without terminal board or 220/380/440V (12 cables) with terminal board;
- Motors from the IEC 90 housing: 220/380/440V (12 cables) with terminal board.



C-Din Flange



FC Flange



FF Flange

ELECTRICAL DATA

THREE-PHASE LINE

- The values shown are subject to change without prior notice.

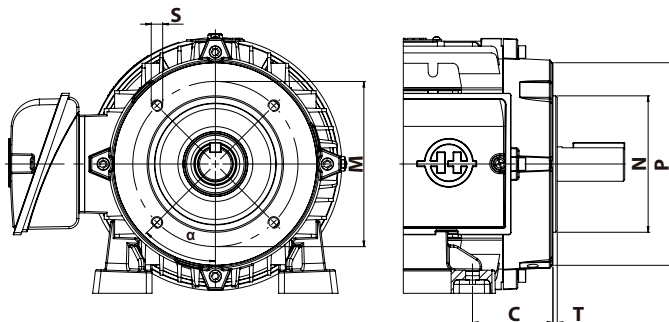
2 Poles - 60Hz																				
P ower		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor C o s			Service factor SF	M oment of inertia J (Kg m²)	T mrb (s)	Weight (Kg)	Voltage (V)	HM Code
cv	kW								% of rated power											
									50	75	100	50	75	100						
0,25	0,18	63	3445	1,0	4,6	0,05	2,4	3,0	57,0	63,9	66,9	0,54	0,65	0,74	1,25	0,00020	12	5,3	220/440	605602001
0,33	0,25	63	3450	1,2	5,0	0,07	2,4	3,0	60,6	67,0	69,6	0,53	0,65	0,74	1,25	0,00023	12	5,7	220/440	605602002
0,5	0,37	71	3410	1,6	5,5	0,10	2,8	3,1	73,0	75,8	76,4	0,66	0,77	0,83	1,25	0,00054	10	7,7	220/440	605602004
0,75	0,55	71	3420	2,2	6,5	0,15	3,7	3,7	76,4	79,5	79,6	0,65	0,77	0,83	1,25	0,00067	10	9,0	220/440	605602005
1	0,75	71	3390	2,9	7,0	0,21	3,8	3,8	79,6	81,2	80,9	0,70	0,80	0,85	1,25	0,00070	10	10,1	220/440	605602006
1,5	1,1	80S	3435	4,5	7,5	0,31	3,4	3,4	81,9	82,9	84,0	0,60	0,73	0,81	1,25	0,00084	8	11,1	220/380/440	605602408
2	1,5	80L	3460	5,9	7,6	0,41	3,9	3,7	83,2	84,8	85,5	0,57	0,70	0,78	1,25	0,00110	8	13,5	220/380/440	605602409
3	2,2	90S	3480	8,7	7,9	0,62	3,4	4,1	83,1	85,1	86,5	0,59	0,71	0,79	1,25	0,00240	8	17,6	220/380/440	605602411
4	3	90S	3440	10,8	8,0	0,81	3,7	4,3	86,2	88,0	88,5	0,64	0,76	0,82	1,25	0,00246	8	19,2	220/380/440	605602412
5	3,7	100S	3515	13,8	8,4	1,02	2,3	3,9	84,5	86,5	88,5	0,62	0,75	0,82	1,25	0,00490	8	27,7	220/380/440	605602414
7,5	5,5	112S	3525	18,7	9,5	1,53	2,6	4,2	88,5	89,5	89,5	0,72	0,82	0,87	1,25	0,00770	8	40,7	220/380/440	605602417
10	7,5	132S	3530	24,6	10,1	2,04	2,5	4,2	87,6	89,1	90,2	0,76	0,84	0,88	1,25	0,01390	8	61,7	220/380/440	605602419
12,5	9,2	132ML	3535	30,8	11,0	2,55	2,7	4,6	88,5	89,8	91,0	0,75	0,84	0,88	1,25	0,01660	8	66,7	220/380/440	605602420
15	11	132MWL	3525	36,3	10,8	3,06	2,7	4,4	89,7	90,5	91,0	0,77	0,85	0,89	1,25	0,01850	8	67,9	220/380/440	605602421
20	15	160M	3535	45,6	7,9	4,08	2,3	3,3	92,1	92,8	92,6	0,83	0,89	0,91	1,25	0,04590	8	116,9	220/380/440	605602423
25	19	160M	3535	56,4	7,6	5,07	2,2	3,2	92,5	93,1	92,8	0,84	0,89	0,91	1,25	0,05340	8	125,0	220/380/440	605602424
30	22	160L	3540	69,4	9,4	6,08	3,2	3,7	92,5	93,2	93,1	0,82	0,88	0,91	1,25	0,06090	8	140,5	220/380/440	605602425
30	22	180L	3540	69,4	9,4	6,08	3,2	3,7	92,5	93,2	93,1	0,82	0,88	0,91	1,25	0,06090	8	147,5	220/380/440	605602426
40	30	180L	3550	91,6	10,1	8,08	3,1	4,1	93,2	94,0	93,9	0,79	0,86	0,89	1,25	0,06850	8	155,9	220/380/440	610001090
4 Poles - 60Hz																				
P ower		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor C o s			Service factor SF	M oment of inertia J (Kg m²)	T mrb (s)	Weight (Kg)	Voltage (V)	HM Code
cv	kW								% of rated power											
									50	75	100	50	75	100						
0,16	0,12	63	1720	0,8	5,0	0,07	3,0	3,6	62,4	68,5	71,0	0,38	0,49	0,58	1,25	0,00042	12	6,1	220/440	605604001
0,25	0,18	63	1685	1,0	4,2	0,10	2,6	3,0	64,0	68,8	69,7	0,47	0,59	0,68	1,25	0,00042	12	6,5	220/440	605604002
0,33	0,25	63	1700	1,4	4,5	0,14	2,8	3,2	64,9	70,7	73,4	0,42	0,54	0,63	1,25	0,00048	12	6,9	220/440	605604003
0,5	0,37	71	1705	2,1	4,8	0,21	3,4	3,7	73,1	77,1	78,2	0,44	0,54	0,62	1,25	0,00113	10	10,3	220/440	605604005
0,75	0,55	71	1685	2,9	4,8	0,31	3,0	3,3	77,5	80,0	81,1	0,48	0,59	0,67	1,25	0,00127	10	10,3	220/440	605604006
1	0,75	80S	1730	3,1	6,7	0,41	2,8	3,3	80,7	82,6	83,5	0,52	0,66	0,75	1,25	0,00258	8	12,0	220/380/440	605604408
1,5	1,1	80ML	1730	4,8	7,0	0,61	3,1	3,8	81,6	84,5	86,5	0,52	0,65	0,74	1,25	0,00343	8	15,3	220/380/440	605604409
2	1,5	90S	1740	6,1	7,5	0,81	3,2	3,5	82,4	86,2	86,5	0,54	0,67	0,75	1,25	0,00434	8	17,4	220/380/440	605604411
3	2,2	90ML	1730	8,8	7,5	1,22	2,9	2,8	84,8	87,2	89,5	0,58	0,71	0,78	1,25	0,00505	8	19,4	220/380/440	605604412
4	3	100S	1740	11,1	7,5	1,62	2,5	3,3	86,3	89,4	89,5	0,54	0,66	0,74	1,25	0,00756	8	29,9	220/380/440	605604414
5	3,7	100ML	1750	15,7	7,6	2,01	2,9	3,9	86,8	89,6	89,5	0,50	0,62	0,70	1,25	0,00909	8	34,2	220/380/440	605604415
7,5	5,5	112MWL	1750	21,0	8,5	3,00	2,1	3,9	89,6	90,5	91,7	0,58	0,71	0,78	1,25	0,01602	8	47,2	220/380/440	605604418
10	7,5	132S	1765	25,5	7,5	3,98	1,8	3,5	89,3	90,7	91,7	0,63	0,76	0,82	1,25	0,04396	8	65,3	220/380/440	605604420
12,5	9,2	132MWL	1760	31,2	7,5	4,97	1,7	3,4	90,0	91,1	92,4	0,64	0,76	0,82	1,25	0,05186	8	71,8	220/380/440	605604421
15	11	132MWL	1760	39,6	7,5	5,96	1,7	3,3	90,3	91,0	92,4	0,62	0,74	0,81	1,25	0,05445	8	74,2	220/380/440	605604422
20	15	160M	1770	50,9	8,1	8,10	2,8	3,6	92,1	93,0	93,0	0,64	0,75	0,81	1,25	0,08340	8	119,5	220/380/440	605604424
25	19	160M	1765	62,3	7,6	10,15	2,6	3,3	92,7	93,3	93,6	0,67	0,78	0,83	1,25	0,09590	8	129,0	220/380/440	605604425
25	19	180M	1765	62,3	7,6	10,15	2,6	3,3	92,7	93,3	93,6	0,67	0,78	0,83	1,25	0,09590	8	136,0	220/380/440	605604426
30	22	180L	1765	72,8	7,3	12,20	2,4	3,0	93,1	93,4	93,6	0,72	0,81	0,86	1,25	0,10850	8	149,0	220/380/440	605604427
6 Poles - 60Hz																				
P ower		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor C o s			Service factor SF	M oment of inertia J (Kg m²)	T mrb (s)	Weight (Kg)	Voltage (V)	HM Code
cv	kW								% of rated power											
									50	75	100	50	75	100						
0,5	0,37	80ML	1140	2,0	4,5	0,31	2,3	2,5	72,9	75,7	75,3	0,46	0,58	0,66	1,25	0,00271	12	13,0	220/380/440	605650403
0,75	0,55	80ML	1140	3,1	5,0	0,46	2,8	3,4	73,3	77,9	79,5	0,42	0,54	0,63	1,25	0,00343	12	15,1	220/380/440	605650404
1	0,75	90ML	1145	3,6	5,0	0,61	2,0	2,5	78,8	82,4	82,5	0,46	0,58	0,66	1,25	0,00490	10	19,1	220/380/440	610000546
3	2,2	132S	1175	9,2	5,5	1,80	1,9	2,8	86,0	88,5	89,5	0,53	0,65	0,73	1,25	0,03905	8	61,2	220/380/440	605606412
5	3,7	132S	1175	16,1	4,9	3,00	1,9	2,7	85,2	88,1	89,5	0,47	0,60	0,69	1,25	0,04166	8	63,3	220/380/440	605606414
15	11	160M	1175	42,9	6,0	9,18	2,1	2,8	90,6	91,7	91,7	0,55	0,67	0,74	1,25	0,13110	8	128,5	220/380/440	605606420
20	15	160L	1175	59,1	6,1	12,19	2,2	3,2	90,4	91,8	92,0	0,51	0,63	0,71	1,25	0,14720	8	143,0	220/380/440	605606421
20	15	180L	1175	59,1	6,1	12,19	2,2	3,2	90,4	91,8	92,0	0,51	0,63	0,71	1,25	0,14720	8	150,0	220/380/440	605606422

*To obtain the nominal current values (A) at voltage 380V, multiply by 0.577 and at voltage 440V, multiply by 0.5.

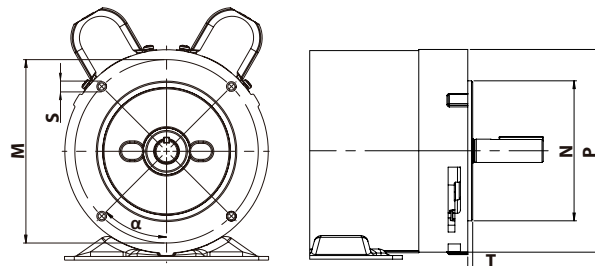
FLANGES

THREE-PHASE AND SINGLE-PHASE LINE

IP55



IP21

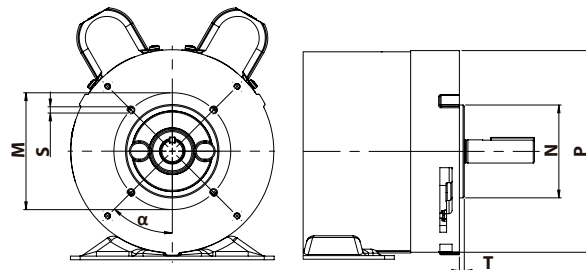
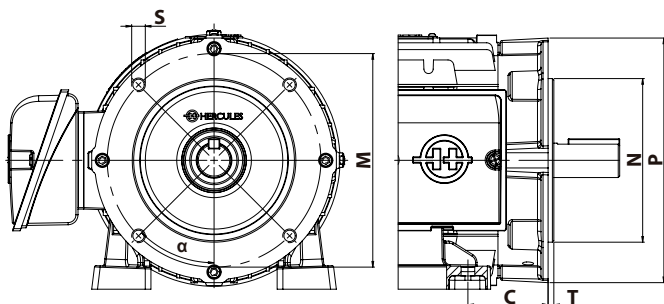


"C-DIN" FLANGE

Code	Frame	Flange	M	N	P	S	T	C	α	Number of holes
50.6810.082	IEC 63	C-90	75	60	90	M5	2,5	40	45°	4
50.6810.084	IEC 71	C-105	85	70	105	M6		45		
50.6810.028	IEC 80	C-120	100	80	120		3	50		
50.6810.038	IEC 90	C-140	115	95	140			56		
50.6810.048	IEC 100	C-160	130	110	160	M8	3,5	60		
50.6810.058	IEC 112									
50.6810.068	IEC 132	C-200	165	130	200	M10		89		

"FC" FLANGE

Frame	Flange	M	N	P	S	T	α	Number of holes
N56	FC-95	95,2	76,2		UNC 1/4" X 20	166	4	45°
N56	FC 149	149,2	114,3		UNC 3/8" X 16			



"FC" FLANGE

Code	Frame	Flange	M	N	P	S	T	C	α	Number of holes
50.6810.086	IEC 63	FC-95	95,2	76,2	143	UNC 1/4" X 20	4	40	45°	4
50.6810.088	IEC 71							45		
50.6810.027	IEC 80							50		
50.6810.037	IEC 90	FC-149	149,2	114,3	165	UNC 3/8" X 16	6,3	56		
50.6810.047	IEC100							60		
50.6810.057	IEC112	FC-184	184,2	215,9	225	UNC 1/2" X 13		60		
50.6810.067	IEC132							89		

"FC" FLANGE

Frame	Flange	M	N	P	S	T	α	Number of holes
N48	FC-95	95,2	76,2	148	UNC 1/4" X 20	166	4	45°
N48	FC 149	149,2	114,3	166	UNC 3/8" X 16			

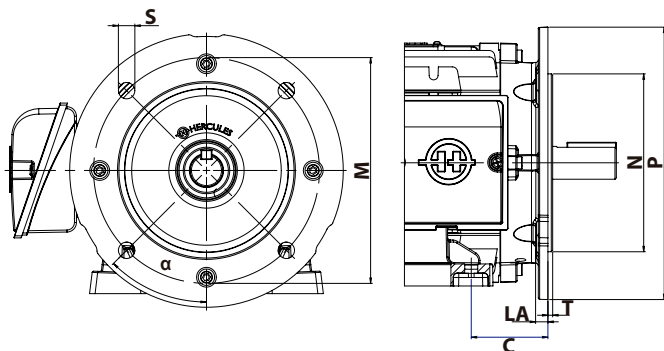


Image for illustrative purposes

"FF" FLANGE

Code	Frame	Flange	LA	M	N	P	S	T	C	α	Number of holes
50.6810.090	IEC 63	FF-115	9	115	95	140	10	3	40	45°	4
50.6810.092	IEC 71	FF-130		130	110	160			45		
50.6810.026	IEC 80	FF-165	10	165	130	200	12	3,5	50		
50.6810.036	IEC 90								56		
50.6810.046	IEC 100	FF-215	11	215	180	250	15	4	60		
50.6810.056	IEC 112										
50.6810.066	IEC132	FF-265	12	265	230	300			89		

CABLES CLAMPS

Code	Product
105007064	BSP CABLE CLAMP 3/8 INCH
105007091	M12 CABLE GLAND SHORT THREAD GRAY
105007035	CABLE CLAMPS M20 X 1,5
105007134	NPT 1" CABLE CLAMPS
105033063	CABLE CLAMPS PC 5,0
105007042	CABLE CLAMPS PG9 GRAY
105007160	SHORT THREAD CABLE CLAMPS BSP 1/4" GRAY

IP 55 MOTOR BRAKE LINE

Developed for use in equipment where instant stops are necessary for reasons of safety, positioning, and time savings.

Applications: winding machines, printing machines, column winches, overhead cranes, special machines in general.

Image for illustrative purposes



Brake motor with cover



Brake motor with lever and cover



CHARACTERISTICS

- Efficiency Index 3 (IR3);
- Bearings sealed by V-rings;
- Drain for condensed water outlet;
- Cable outlet sealed with self-extinguishing foam;
- Mountings with ball bearings;
- Double direction of rotation;
- Category N;
- Voltage: 220/380/440V;
- Painting: Gray RAL7026;
- Brake cooled by a metal ventilation system.

Electromagnetic brake with brake lining. Its friction promotes less wear, making the braking of the equipment safe and longer-lasting.



Frame
injected in high-strength
aluminum for a lighter
product



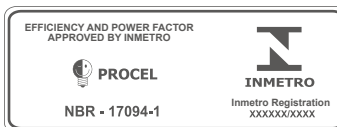
Removable feet:
Flexibility to change the
structural form



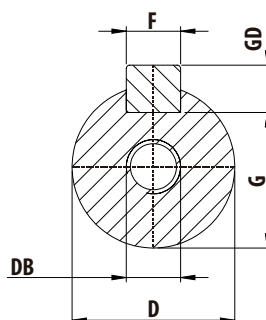
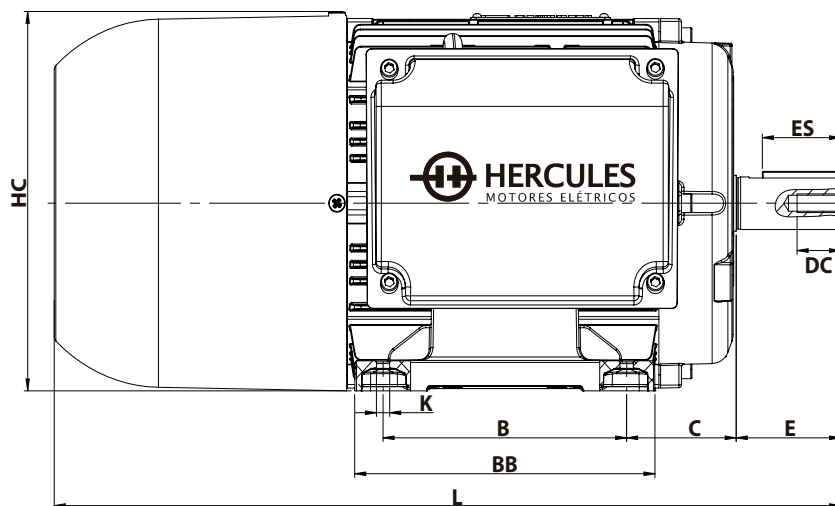
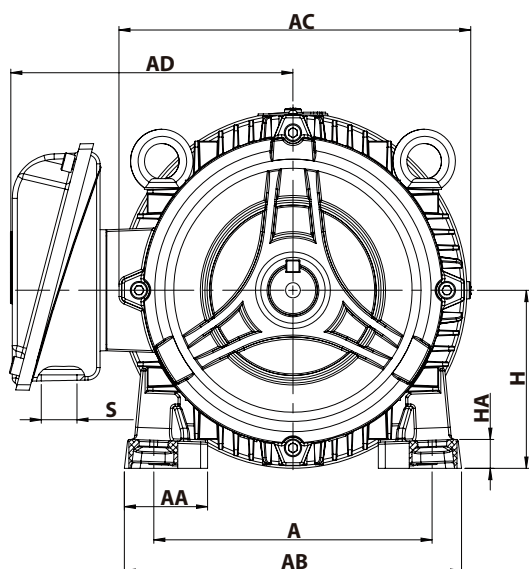
Insulation Class F:
Withstands up to 155°C



Service Factor 1,25



<http://registro.inmetro.gov.br/consulta/>



MECHANICAL DATA

Frame	A	AA	AB	AC	AD	B	BB	C	Shaft End								I	J	H	HA	HC	K	L	LL	LM	S	Bearings	
									D	E	ES	F	G	GD	DB	DC											Front	Rear
IEC 63	100	32	121	130	123	80	96	40	11	23	14	4	8,5	4	M5 x 0,8	10	M5*	63	12	127	7	250					6201-ZZ	
IEC 71	112		138	145	131	90	112	45	14	30	18	5	11	5	M5 x 0,8	10	M5*	71	10	145	7	293					6203-ZZ	6202-ZZ
IEC 80 (S)	125	38	151	158	145	100	134	50	19	40	28	6	15	6	M6 x 1	20	M6*	80	15	162	10	323					6204-ZZ	6203-ZZ
IEC 80 (L)	125	38	151	158	145	100	134	50	19	40	28	6	15	6	M6 x 1	20	M6*	80	15	162	10	363					6204-ZZ	6203-ZZ
IEC 90 (S)	140	41	171	176	155	125	154	56	24	50	36	8	20	7	M8 x 1,25	20	M6*	90	16,5	181	10	378					6205-ZZ	6204-ZZ
IEC 90 (L)	140	41	171	176	155	125	154	56	24	50	36	8	20	7	M8 x 1,25	20	M6*	90	16,5	181	10	390					6205-ZZ	6204-ZZ
IEC 100 (S)	160	48	194	205	171		173	63									M8	100	16,5	203		430					6206-ZZ	6205-ZZ
IEC 100 (L)	160	48	194	205	171		173	63									M8	100	16,5	203		461					6206-ZZ	6205-ZZ
IEC 112 (S)	190	58	223	226	201	140	177	70	28	60	45	8	24	7	M10 x 1,5	25	Ø20	112	19	224	12	488					6207-ZZ	6206-ZZ
IEC 112 (L)	190	58	223	226	201	140	177	70	28	60	45	8	24	7	M10 x 1,5	25	Ø20	112	19	224	12	488					6207-ZZ	6206-ZZ
IEC 132 (S)	216	64	256	270	222	140/178	215	89	38	80	63	10	33	8	M12 x 1,75	30		132	24	270		525	141	128	BSP 1"		6308-ZZ	6207-ZZ
IEC 132 (M/L)	216	64	256	270	222	140/178	215	89	38	80	63	10	33	8	M12 x 1,75	30		132	24	270		560					6308-ZZ	6207-ZZ
IEC 160 (M)	254	51	292			210	256	108	42								Ø30	160	22	371	14,5	707	191	196	BSP 1 1/2"		6309-C3	6209-C3
IEC 160 (L)	254	51	292			210	256	108	42								Ø30	160	22	371	14,5	767					6309-C3	6209-C3
IEC 180 (M)	279	71	322			254	304	121	48	110	86	14	42,5	9	M16 x 2	36	Ø30	180	29	391		716					6311-C3	6211-C3**
IEC 180 (L)	279	71	322			241	300	121	48								Ø30	180	29	391		776					6311-C3	6211-C3**

Brake Supply Voltage

Frame 63	Frame 71	Frame 80	Frame 90	Frame 100	Frame 112	Frame 132
205Vdc	205Vdc	205Vdc	205Vdc	205Vdc	205Vdc	205Vdc

Coil Power

Frame 63	Frame 71	Frame 80	Frame 90	Frame 100	Frame 112	Frame 132
20W	25W	25W	33W	40W	53W	56W

Braking Torque

Frame 63	Frame 71	Frame 80	Frame 90	Frame 100	Frame 112	Frame 132
4 N.m	8 N.m	8 N.m	16 N.m	32 N.m	60 N.m	80 N.m

Air Gap Regulation

Frame	Brake Size	Air Gap (+0,1/-0,05)
63	6	0,3
71	8	
80	8	
90	10	0,4
100	12	
112	14	
132	16	

ELECTRICAL DATA

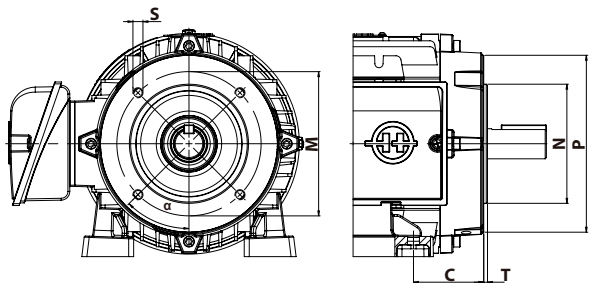
THREE-PHASE BRAKE MOTOR IP55 220/380/440

2 Poles - 60Hz																				
Power		Frame	RPM	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque Cn (Kgfm)	Torque with locked rotor Cp / Cn	Maximum torque Cmax/ Cn	Yield n %			Power factor Cos			Service Factor SF	M oment of inertia J (Kg m²)	Tmrb (s)	Weight (Kg)	Voltage (V)	HM Code
cv	kW								% of rated power											
									50	75	100	50	75	100						
0,25	0,18	63	3445	1,0	4,6	0,05	2,4	3,0	57,0	63,9	66,9	0,54	0,65	0,74	1,25	0,00020	12	5,3	220/380/440	610001130
0,33	0,25	63	3450	1,2	5,0	0,07	2,4	3,0	60,6	67,0	69,6	0,53	0,65	0,74	1,25	0,00023	12	5,7	220/380/440	610001131
0,5	0,37	71	3410	1,6	5,5	0,10	2,8	3,1	73,0	75,8	76,4	0,66	0,77	0,83	1,25	0,00054	10	7,7	220/380/440	610001092
0,75	0,55	71	3420	2,2	6,5	0,15	3,7	3,7	76,4	79,5	79,6	0,65	0,77	0,83	1,25	0,00067	10	9,0	220/380/440	610001093
1	0,75	71	3390	2,9	7,0	0,21	3,8	3,8	79,6	81,2	80,9	0,70	0,80	0,85	1,25	0,00070	10	10,1	220/380/440	610001094
1,5	1,1	80S	3435	4,5	7,5	0,31	3,4	3,4	81,9	82,9	84,0	0,60	0,73	0,81	1,25	0,00084	8	11,1	220/380/440	610001095
2	1,5	80L	3460	5,9	7,6	0,41	3,9	3,7	83,2	84,8	85,5	0,57	0,70	0,78	1,25	0,00110	8	13,5	220/380/440	610001096
3	2,2	90S	3480	8,7	7,9	0,62	3,4	4,1	83,1	85,1	86,5	0,59	0,71	0,79	1,25	0,00240	8	17,6	220/380/440	610001097
4	3	90S	3440	10,8	8,0	0,81	3,7	4,3	86,2	88,0	88,5	0,64	0,76	0,82	1,25	0,00246	8	19,2	220/380/440	610001098
5	3,7	100S	3515	13,8	8,4	1,02	2,3	3,9	84,5	86,5	88,5	0,62	0,75	0,82	1,25	0,00490	8	27,7	220/380/440	610001099
7,5	5,5	112S	3525	18,7	9,5	1,53	2,6	4,2	88,5	89,5	89,5	0,72	0,82	0,87	1,25	0,00770	8	40,7	220/380/440	610001100
10	7,5	132S	3530	24,6	10,1	2,04	2,5	4,2	87,6	89,1	90,2	0,76	0,84	0,88	1,25	0,01390	8	61,7	220/380/440	610001101
12,5	9,2	132S	3535	30,8	11,0	2,55	2,7	4,6	88,5	89,8	91,0	0,75	0,84	0,88	1,25	0,01660	8	66,7	220/380/440	610001102
15	11	132ML	3525	36,3	10,8	3,06	2,7	4,4	89,7	90,5	91,0	0,77	0,85	0,89	1,25	0,01850	8	67,9	220/380/440	610001103
4 Poles - 60Hz																				
Power		Frame	RPM	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque Cn (Kgfm)	Torque with locked rotor Cp / Cn	Maximum torque Cmax/ Cn	Yield n %			Power factor Cos			Service Factor SF	M oment of inertia J (Kg m²)	Tmrb (s)	Weight (Kg)	Voltage (V)	HM Code
cv	kW								% of rated power											
									50	75	100	50	75	100						
0,16	0,12	63	1720	0,8	5,0	0,07	3,0	3,6	62,4	68,5	71,0	0,38	0,49	0,58	1,25	0,00042	12	6,1	220/380/440	610001089
0,25	0,18	63	1685	1,0	4,2	0,10	2,6	3,0	64,0	68,8	69,7	0,47	0,59	0,68	1,25	0,00042	12	6,5	220/380/440	610001140
0,33	0,25	63	1700	1,4	4,5	0,14	2,8	3,2	64,9	70,7	73,4	0,42	0,54	0,63	1,25	0,00048	12	6,9	220/380/440	610001142
0,5	0,37	71	1705	2,1	4,8	0,21	3,4	3,7	73,1	77,1	78,2	0,44	0,54	0,62	1,25	0,00113	10	10,3	220/380/440	610001109
0,75	0,55	71	1685	2,9	4,8	0,31	3,0	3,3	77,5	80,0	81,1	0,48	0,59	0,67	1,25	0,00127	10	10,3	220/380/440	610001110
1	0,75	80S	1730	3,1	6,7	0,41	2,8	3,3	80,7	82,6	83,5	0,52	0,66	0,75	1,25	0,00258	8	12,0	220/380/440	610001111
1,5	1,1	80ML	1730	4,8	7,0	0,61	3,1	3,8	81,6	84,5	86,5	0,52	0,65	0,74	1,25	0,00343	8	15,3	220/380/440	610001112
2	1,5	90S	1740	6,1	7,5	0,81	3,2	3,5	82,4	86,2	86,5	0,54	0,67	0,75	1,25	0,00434	8	17,4	220/380/440	610001113
3	2,2	90ML	1730	8,8	7,5	1,22	2,9	2,8	84,8	87,2	89,5	0,58	0,71	0,78	1,25	0,00505	8	19,4	220/380/440	610001114
4	3	100S	1740	11,1	7,5	1,62	2,5	3,3	86,3	89,4	89,5	0,54	0,66	0,74	1,25	0,00756	8	29,9	220/380/440	610001115
5	3,7	100ML	1750	15,7	7,6	2,01	2,9	3,9	86,8	89,6	89,5	0,50	0,62	0,70	1,25	0,00909	8	34,2	220/380/440	610001116
7,5	5,5	112ML	1750	21,0	8,5	3,00	2,1	3,9	89,6	90,5	91,7	0,58	0,71	0,78	1,25	0,01602	8	47,2	220/380/440	610001117
10	7,5	132S	1765	25,5	7,5	3,98	1,8	3,5	89,3	90,7	91,7	0,63	0,76	0,82	1,25	0,04396	8	65,3	220/380/440	610001118
12,5	9,2	132ML	1760	31,2	7,5	4,97	1,7	3,4	90,0	91,1	92,4	0,64	0,76	0,82	1,25	0,05186	8	71,8	220/380/440	610001119
15	11	132ML	1760	39,6	7,5	5,96	1,7	3,3	90,3	91,0	92,4	0,62	0,74	0,81	1,25	0,05445	8	74,2	220/380/440	610001120
6 Poles - 60Hz																				
Power		Carcasa	RPM	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque Cn (Kgfm)	Torque with locked rotor Cp / Cn	Maximum torque Cmax/ Cn	Yield n %			Power factor Cos			Service Factor SF	M oment of inertia J (Kg m²)	Tmrb (s)	Weight (Kg)	Voltage (V)	HM Code
cv	kW								% of rated power											
									50	75	100	50	75	100						
0,5	0,37	80ML	1140	2,0	4,5	0,31	2,3	2,5	72,9	75,7	75,3	0,46	0,58	0,66	1,25	0,00271	12	13,0	220/380/440	610001126
0,75	0,55	80ML	1140	3,1	5,0	0,46	2,8	3,4	73,3	77,9	79,5	0,42	0,54	0,63	1,25	0,00343	12	15,1	220/380/440	610001091
1	0,75	90ML	1145	3,6	5,0	0,61	2,0	2,5	78,8	82,4	82,5	0,46	0,58	0,66	1,25	0,00490	10	19,1	220/380/440	610001127
5	3,7	132S	1175	16,1	4,9	3,00	1,9	2,7	85,2	88,1	89,5	0,47	0,60	0,69	1,25	0,04166	8	63,3	220/380/440	610001128

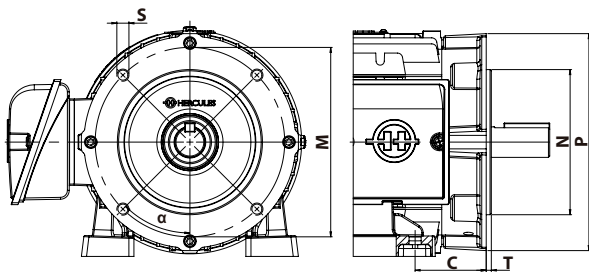
*To obtain the nominal current values (A) at voltage 380V, multiply by 0.577 and at voltage 440V, multiply by 0.5.

FLANGE

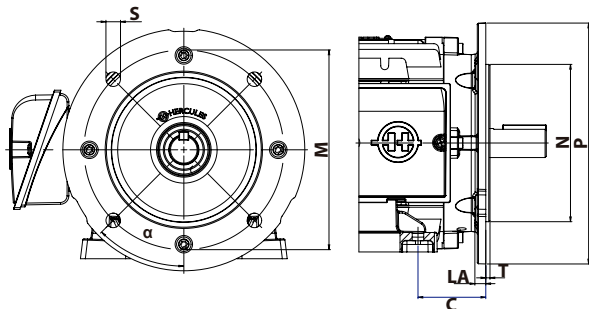
THREE-PHASE MOTOR BRAKE IP55



"C-DIN" FLANGE										
Code	Frame	Flange	M	N	P	S	T	C	α	Number of holes
50.6810.082	IEC 63	C-90	75	60	90	M5	2,5	40	45°	4
50.6810.084	IEC 71	C-105	85	70	105	M6		45		
50.6810.028	IEC 80	C-120	100	80	120	M8	3	50		
50.6810.038	IEC 90	C-140	115	95	140		56			
50.6810.048	IEC 100	C-160	130	110	160	3,5	60			
50.6810.058	IEC 112						89			
50.6810.068	IEC 132	C-200	165	130	200	M10				



"FC" FLANGE										
Code	Frame	Flange	M	N	P	S	T	C	α	Number of holes
50.6810.086	IEC 63	FC-95	95,2	76,2	143	UNC 1/4" X 20	4	40	45°	4
50.6810.088	IEC 71				120			45		
50.6810.027	IEC 80				143			50		
50.6810.037	IEC 90	FC-149	149	114	165	UNC 3/8" X 16	6,3	56		
50.6810.047	IEC 100					UNC 1/2" X 13		60		
50.6810.057	IEC 112	FC-184	184	216	225			60		
50.6810.067	IEC 132							89		



"FF" FLANGE											
Code	Frame	Flange	LA	M	N	P	S	T	C	α	Number of holes
50.6810.090	IEC 63	FF-115	9	115	95	140	10	3	40	45°	4
50.6810.092	IEC 71	FF-130		130	110	160		3,5	45		
50.6810.026	IEC 80	FF-165	10	165	130	200	12	50			
50.6810.036	IEC 90							56			
50.6810.046	IEC 100	FF-215	11	215	180	250	15	4	60		
50.6810.056	IEC 112								89		
50.6810.066	IEC132	FF-265	12	265	230	300					

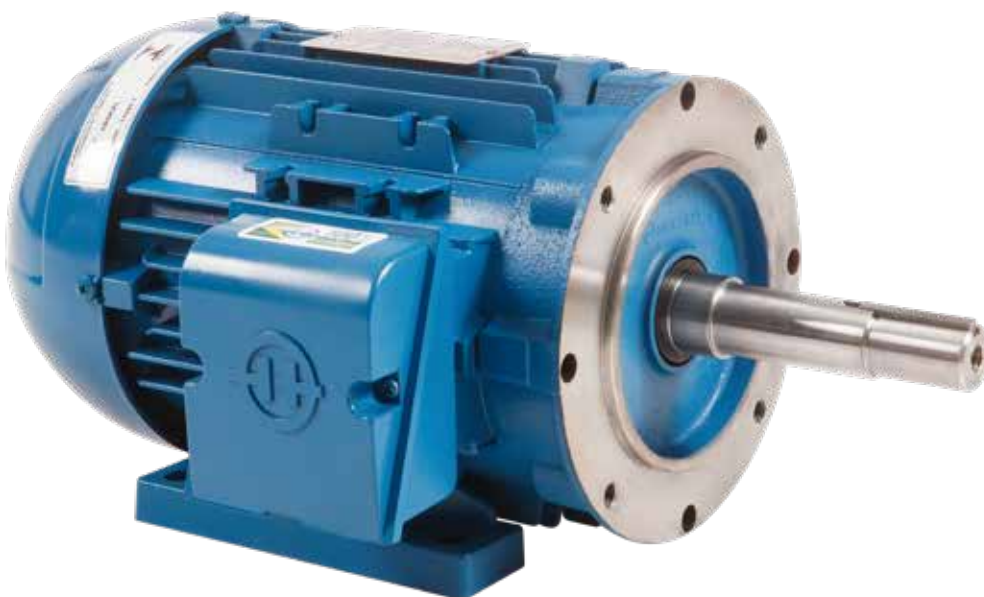


JM IP 55 3F LINE

The H-ECO three-phase motors were developed to meet industrial applications. High-efficiency motors, providing a significant reduction in electrical energy consumption. Great cost-benefit ratio, low noise and vibration levels combined with maximum quality, transformed into reliability and savings.

Applications: Irrigation systems, centrifugal pumps with single-block assembly and standardized dimensions in the JM model.

Image for illustrative purposes



Frame
injected in high-strength
aluminum for a lighter
product



Removable feet:
Flexibility to change the
structural form



Deflector cover injected in
High-Resistance Polymer



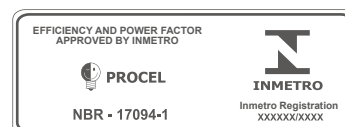
Junction box:
possibility to rotate
in 90° turns



Insulation Class F:
Withstands up to **155°C**



Service Factor 1,25



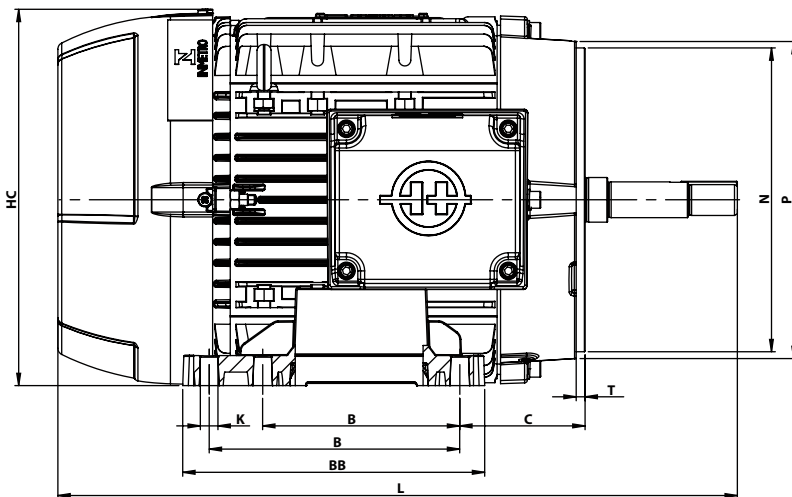
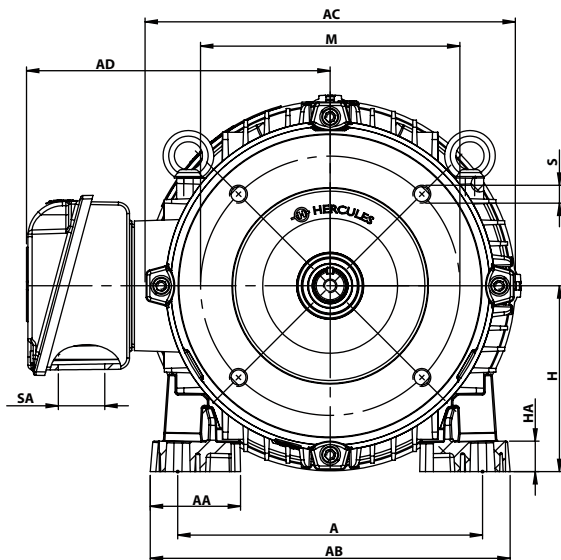
<http://registro.inmetro.gov.br/consulta/>

CHARACTERISTICS

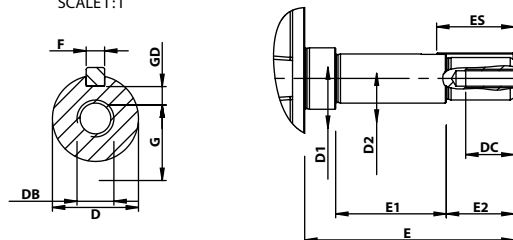
- Efficiency Index 3 (IR3);
- Bearings sealed by V-rings;
- Drain for condensed water outlet;
- Cable outlet sealed with self-extinguishing foam;
- Torque curve designed for pumps;
- Top-of-the-line bearings;
- Continuous regime (S1);
- Shaft end with key;
- Frequency 60Hz;
- Paint: Light blue RAL5009.

OPTIONAL ITEMS ON REQUEST

- Painting in special colors;
- PTC thermistor;
- Thermostat (bimetallic thermal protector);
- Structural forms in accordance with ABNT NBR 60034-7;
- Frequency 50Hz;
- Shaft in special dimensions;
- Terminal board;
- Special supply voltages;
- Cable clamps;
- Category D;
- Special bearings;
- Stainless steel shaft;
- Rotation: VIII poles;
- Retainer;
- FF, FC and C-DIN flanges;
- Heating resistance.



CUT A-A
SCALE 1:1



FLANGE	M	N	P	T	S	Number of holes
FC-149	149	114	165	4	UNC 3/8" x 16 F.P.P.	4
FC-184	184	216	225	6,3	UNC 1/2" x 13 F.P.P.	
FC-279	279	318	346		UNC 5/8" x 11 F.P.P.	

MECHANICAL DATA

Frame	A	AA	AB	AC	AD	B	BB	C	Shaft End										H	HA	HC	K	L	SA	Bearings																	
									D	D1	D2	DC	DB	E	E1	E2	ES	F							G	Front	Rear															
610001773	140	41	171	176	143	100/125	154	56	22,2	29,4	25,4	20	UNC 3/8" x 16 F.P.P.	108	57,2	35	40	4,76	19,5	90	16,5	181	10	381	RWG 1/2" ou M20 x 2	6205-ZZ	6204-ZZ															
610001774																				100		203				421	6206-ZZ	6205-ZZ														
610001761	160	48	194	205	158	173	63	31,8												12	455	482				6308-ZZ	6207-ZZ															
610001762																												190	58	223	226	195	140	177	70							
610001763	216	64	256	270	216	140/178 178/203	215 239		89	132	24	270	517	14,5	622	BSP - 1"1/2	6309-DDU	6209-ZZ																								
610001764																			190				58	223	226			195	140	177	70											
610001765								254											51	292	313	275	210	255	108	31,73	34,92	44,45	30	E UNC 1/2" x 13 F.P.P.	133,4	57	60,35	63	6,35	28,2	180	28	391	691	6311-DDU	6211-ZZ
610001766																																										
610001767	216	64	256	270	216	140/178 178/203	215 239	89	31,8	12	455	482	6308-ZZ	6207-ZZ																												
610001768															190	58	223	226	195	140	177	70																				
610001769	254	51	292	313	275	210	255	108							31,73	34,92	44,45	30	E UNC 1/2" x 13 F.P.P.	133,4	57	60,35	63	6,35	28,2	180	28	391	691	6311-DDU	6211-ZZ											
610001770																																190	58	223	226	195	140	177	70			
610001771	279	71	321	346	279	241	300	121	31,8	12	455	482	6308-ZZ	6207-ZZ																												
610001772															279	71	321	346	279	241	300	121																				
610001773	140	41	171	176	143	100/125	154	56							22,2	29,4	25,4	20	UNC 3/8" x 16 F.P.P.	108	57,2	35	40	4,76	19,5	90	16,5	181	10	381	RWG 1/2" ou M20 x 2	6205-ZZ	6204-ZZ									
610001774																										100		203				421	6206-ZZ	6205-ZZ								
610001761	160	48	194	205	158	173	63	31,8	12	455	482	6308-ZZ	6207-ZZ																													
610001762														190												58	223	226				195	140	177	70							
610001763	216	64	256	270	216	140/178 178/203	215 239							89	132	24	270	517	14,5	622	BSP - 1"1/2	6309-DDU	6209-ZZ																			
610001764																								190	58	223	226	195	140	177	70											
610001765								254	51	292	313	275	210											255	108	31,73	34,92	44,45	30	E UNC 1/2" x 13 F.P.P.	133,4	57	60,35	63	6,35	28,2	180	28	391	691	6311-DDU	6211-ZZ
610001766																																										
610001767	216	64	256	270	216	140/178 178/203	215 239	89	31,8	12	455	482	6308-ZZ	6207-ZZ																												
610001768															190	58	223	226	195	140	177	70																				
610001769	254	51	292	313	275	210	255	108							31,73	34,92	44,45	30	E UNC 1/2" x 13 F.P.P.	133,4	57	60,35	63	6,35	28,2	180	28	391	691	6311-DDU	6211-ZZ											
610001770																																190	58	223	226	195	140	177	70			
610001771	279	71	321	346	279	241	300	121	31,8	12	455	482	6308-ZZ	6207-ZZ																												
610001772															279	71	321	346	279	241	300	121																				
610001773	140	41	171	176	143	100/125	154	56							22,2	29,4	25,4	20	UNC 3/8" x 16 F.P.P.	108	57,2	35	40	4,76	19,5	90	16,5	181	10	381	RWG 1/2" ou M20 x 2	6205-ZZ	6204-ZZ									
610001774																										100		203				421	6206-ZZ	6205-ZZ								
610001761	160	48	194	205	158	173	63	31,8	12	455	482	6308-ZZ	6207-ZZ																													
610001762														190												58	223	226				195	140	177	70							
610001763	216	64	256	270	216	140/178 178/203	215 239							89	132	24	270	517	14,5	622	BSP - 1"1/2	6309-DDU	6209-ZZ																			
610001764																								190	58	223	226	195	140	177	70											
610001765								254	51	292	313	275	210											255	108	31,73	34,92	44,45	30	E UNC 1/2" x 13 F.P.P.	133,4	57	60,35	63	6,35	28,2	180	28	391	691	6311-DDU	6211-ZZ
610001766																																										
610001767	216	64	256	270	216	140/178 178/203	215 239	89	31,8	12	455	482	6308-ZZ	6207-ZZ																												
610001768															190	58	223	226	195	140	177	70																				
610001769	254	51	292	313	275	210	255	108							31,73	34,92	44,45	30	E UNC 1/2" x 13 F.P.P.	133,4	57	60,35	63	6,35	28,2	180	28	391	691	6311-DDU	6211-ZZ											
610001770																																190	58	223	226	195	140	177	70			
610001771	279	71	321	346	279	241	300	121	31,8	12	455	482	6308-ZZ	6207-ZZ																												
610001772															279	71	321	346	279	241	300	121																				
610001773	140	41	171	176	143	100/125	154	56							22,2	29,4	25,4	20	UNC 3/8" x 16 F.P.P.	108	57,2	35	40	4,76	19,5	90	16,5	181	10	381	RWG 1/2" ou M20 x 2	6205-ZZ	6204-ZZ									
610001774																										100		203				421	6206-ZZ	6205-ZZ								
610001761	160	48	194	205	158	173	63	31,8	12	455	482	6308-ZZ	6207-ZZ																													
610001762														190												58	223	226				195	140	177	70							
610001763	216	64	256	270	216	140/178 178/203	215 239							89	132	24	270	517	14,5	622	BSP - 1"1/2	6309-DDU	6209-ZZ																			
610001764																								190	58	223	226	195	140	177	70											
610001765								254	51	292	313	275	210											255	108	31,73	34,92	44,45	30	E UNC 1/2" x 13 F.P.P.	133,4	57	60,35	63	6,35	28,2	180	28	391	691	6311-DDU	6211-ZZ
610001766																																										
610001767	216	64	256	270	216	140/178 178/203	215 239	89	31,8	12	455	482	6308-ZZ	6207-ZZ																												
610001768															190	58	223	226	195	140	177	70																				
610001769	254	51	292	313	275	210	255	108							31,73	34,92	44,45	30	E UNC 1/2" x 13 F.P.P.	133,4	57	60,35	63	6,35	28,2	180	28	391	691	6311-DDU	6211-ZZ											
610001770																																190	58	223	226	195	140	177	70			
610001771	279	71	321	346	279	241	300	121	31,8	12	455	482	6308-ZZ	6207-ZZ																												
610001772															279	71	321	346	279	241	300	121																				
610001773	140	41	171	176	143	100/125	154	56							22,2	29,4	25,4	20	UNC 3/8" x 16 F.P.P.	108	57,2	35	40	4,76	19,5	90	16,5	181	10	381	RWG 1/2" ou M20 x 2	6205-ZZ	6204-ZZ									
610001774																										100		203				421	6206-ZZ	6205-ZZ								
610001761	160	48	194	205	158	173	63	31,8	12	455	482	6308-ZZ	6207-ZZ																													
610001762														190												58	223	226				195	140	177	70							
610001763	216	64	256	270	216	140/178 178/203	215 239							89	132	24	270	517	14,5	622	BSP - 1"1/2	6309-DDU	6209-ZZ																			
610001764																								190	58	223	226	195	140	177	70											
610001765								254	51	292	313	275	210											255	108	31,73	34,92	44,45	30	E UNC 1/2" x 13 F.P.P.	133,4	57	60,35	63	6,35	28,2	180	28	391	691	6311-DDU	6211-ZZ
610001766																																										
610001767	216	64	256	270	216	140/178 178/203	215 239	89	31,8	12	455	482	6308-ZZ	6207-ZZ																												
610001768															190	58	223	226	195	140	177	70																				
610001769	254	51	292	313	275	210	255	108							31,73	34,92	44,45	30	E UNC 1/2" x 13 F.P.P.	133,4	57	60,35	63	6,35	28,2	180	28	391	691	6311-DDU	6211-ZZ											
610001770																																190	58	223	226	195	140	177	70			
610001771	279	71	321	346	279	241	300	121	31,8	12	455	482	6308-ZZ	6207-ZZ																												
610001772															279	71	321	346	279	241	300	121																				
610001773	140	41	171	176	143	100/125	154	56							22,2	29,4	25,4	20	UNC 3/8" x 16 F.P.P.	108	57,2	35	40	4,76	19,5	90	16,5	181	10	381	RWG 1/2" ou M20 x 2	6205-ZZ	6204-ZZ									
610001774																										100		203				421	6206-ZZ	6205-ZZ								
610001761	160	48	194	205	158	173	63	31,8	12	455	482	6308-ZZ	6207-ZZ																													
610001762														190												58	223	226				195	140	177	70							
610001763	216	64	256	270	216																																					

ELECTRICAL DATA

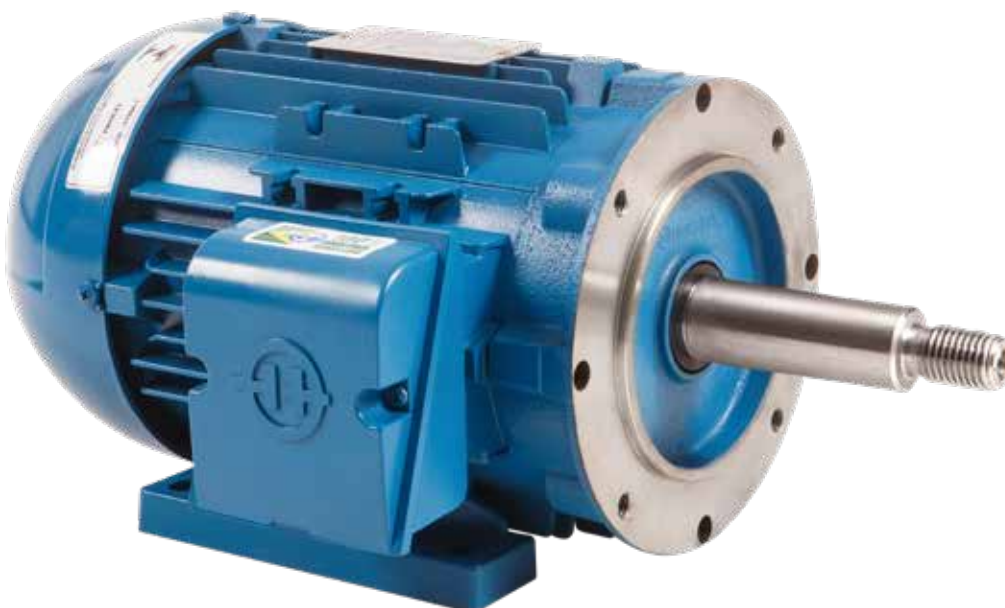
2 Poles - 60Hz																				
P o w e r		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor Cos			Service Factor SF	M o m e n t of inertia J (Kg m²)	T m r b (s)	Weight (Kg)	Voltage (V)	H M Code
c v	k W								% of rated power											
									50	75	100	50	75	100						
3	2,2	90S	3480	8,7	7,9	0,62	3,4	4,1	83,1	85,1	86,5	0,59	0,71	0,79	1,25	0,00240	8	17,6	220/380/440	610001773
4	3	90S	3440	10,8	8,0	0,81	3,7	4,3	86,2	88,0	88,5	0,64	0,76	0,82	1,25	0,00246	8	19,2	220/380/440	610001774
5	3,7	100S	3515	13,8	8,4	1,02	2,3	3,9	84,5	86,5	88,5	0,62	0,75	0,82	1,25	0,00490	8	27,7	220/380/440	610001761
6	4,5	112S	3520	15,9	9,0	1,22	2,6	4,1	86,6	88,1	88,5	0,67	0,78	0,84	1,25	0,00630	8	36,2	220/380/440	610001762
7,5	5,5	112S	3525	18,7	9,5	1,53	2,6	4,2	88,5	89,5	89,5	0,72	0,82	0,87	1,25	0,00770	8	40,7	220/380/440	610001763
10	7,5	132S	3530	24,6	10,1	2,04	2,5	4,2	87,6	89,1	90,2	0,76	0,84	0,88	1,25	0,01390	8	61,7	220/380/440	610001764
12,5	9,2	132S	3535	30,8	11,0	2,55	2,7	4,6	88,5	89,8	91,0	0,75	0,84	0,88	1,25	0,01660	8	66,7	220/380/440	610001765
15	11	132M/L	3525	36,3	10,8	3,06	2,7	4,4	89,7	90,5	91,0	0,77	0,85	0,89	1,25	0,01850	8	67,9	220/380/440	610001766
20	15	160M	3535	45,6	7,9	4,08	2,3	3,3	92,1	92,8	92,6	0,83	0,89	0,91	1,25	0,04590	8	116,9	220/380/440	610001767
25	19	160M	3535	56,4	7,6	5,07	2,2	3,2	92,5	93,1	92,8	0,84	0,89	0,91	1,25	0,05340	8	125,0	220/380/440	610001768
30	22	160L	3540	69,4	9,4	6,08	3,2	3,7	92,5	93,2	93,1	0,82	0,88	0,91	1,25	0,06090	8	140,5	220/380/440	610001770
40	30	180L	3550	91,6	10,1	8,08	3,1	4,1	93,2	94,0	93,9	0,79	0,86	0,89	1,25	0,06850	8	155,9	220/380/440	610001778
4 Poles - 60Hz																				
P o w e r		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor Cos			Service Factor SF	M o m e n t of inertia J (Kg m²)	T m r b (s)	Weight (Kg)	Voltage (V)	H M Code
c v	k W								% of rated power											
									50	75	100	50	75	100						
20	15	160M	1770	50,9	8,1	8,10	2,8	3,6	92,1	93,0	93,0	0,64	0,75	0,81	1,25	0,08340	8	119,5	220/380/440	610001769
25	19	160M	1765	62,3	7,6	10,15	2,6	3,3	92,7	93,3	93,6	0,67	0,78	0,83	1,25	0,09590	8	129,0	220/380/440	610001771
30	22	180L	1765	72,8	7,3	12,20	2,4	3,0	93,1	93,4	93,6	0,72	0,81	0,86	1,25	0,10850	8	149,0	220/380/440	610001772

JET PUMP IP 55 3F LINE

The H-ECO three-phase motors were developed to meet industrial applications. High-efficiency motors, providing a significant reduction in electrical energy consumption. Great cost-benefit ratio, low noise and vibration levels combined with maximum quality, transformed into reliability and savings.

Applications: Industrial pumps, commercial pumps, hydraulic pumps, pool filters, hot tubs and centrifugal pumps in general.

Image for illustrative purposes



Frame
injected in high-strength
aluminum for a lighter
product



Removable feet:
Flexibility to change the
structural form



Deflector cover injected in
High-Resistance Polymer



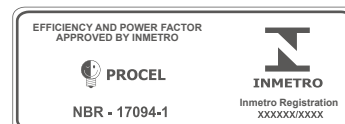
Junction box:
possibility to rotate
in 90° turns



Insulation Class F:
Withstands up to **155°C**



Service Factor 1,25



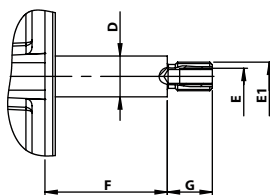
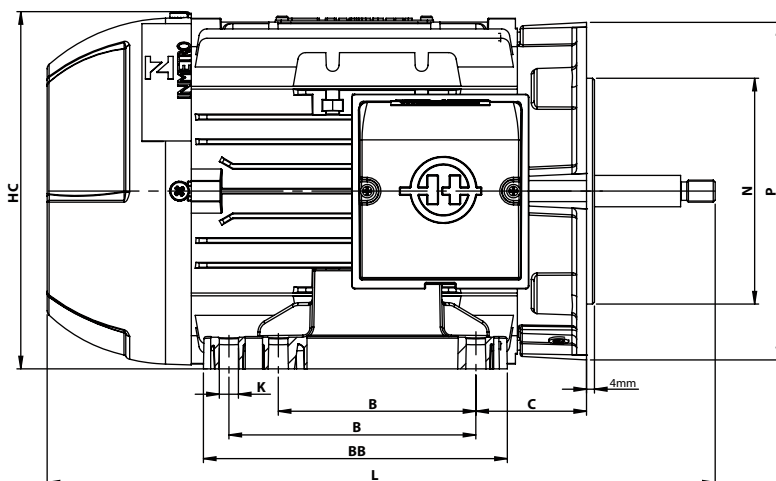
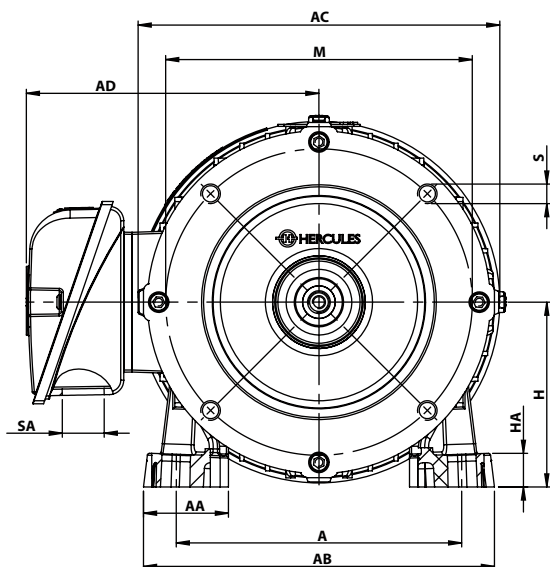
<http://registro.inmetro.gov.br/consulta/>

CHARACTERISTICS

- Efficiency Index 3 (IR3);
- Bearings sealed by V-rings;
- Drain for condensed water outlet;
- Cable outlet sealed with self-extinguishing foam;
- Torque curve designed for pumps;
- Top-of-the-line bearings;
- Continuous regime (S1);
- Threaded shaft end;
- Frequency 60Hz;
- Paint: Light blue RAL5009.

OPTIONAL ITEMS ON REQUEST

- Painting in special colors;
- PTC thermistor;
- Thermostat (bimetallic thermal protector);
- Structural forms in accordance with ABNT NBR 60034-7;
- Frequency 50Hz;
- Shaft in special dimensions;
- Terminal board;
- Special supply voltages;
- Cable clamps;
- Category D;
- Special bearings;
- Stainless steel shaft;
- Rotation: VIII poles;
- Retainer;
- FF, FC and C-DIN flanges;
- Heating resistance.



FLANGE	M	N	P	S	Number of holes
FC-149	149,2	114,3	165	UNC 3/8" x 16 F.P.P.	4

MECHANICAL DATA

Frame	A	AA	AB	AC	AD	B	BB	C	Shaft End					H	HC	L	K	SA	Bearings	
									D	E	E1	F	G						Front	Rear
610001219	140	41	171	176	143	100/125	154	56	15,875	UNC 1/4" x 28 F.P.P.	UNF 7/16" x 20 F.P.P.	47,6	17,5	90	181	338	10	RWG 3/4" ou M25 x 2	6205-ZZ	6204-ZZ
610001220																				
610001221																				
610001222																				
610001223																				
610001224	160	48	194	205	158	140	173	63	15,875					100	203	378	12	RWG 1"	6206-ZZ	6205-ZZ
610001225																				

ELECTRICAL DATA

2 Poles - 60Hz																				
Power		Frame	RPM	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque Cn (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor Cos			Service factor SF	M oment of inertia J (Kgm²)	Tmrb (s)	Weight (Kg)	Voltage (V)	HM Code
cv	kW								% of rated power											
									50	75	100	50	75	100						
0,75	0,55	90S	3465	2,6	5,5	0,15	3,0	3,4	71,7	74,2	76,8	0,59	0,70	0,77	1,25	0,00101	8	10,4	220/380	610001219
1	0,75	90S	3485	3,2	6,7	0,21	3,9	4,3	75,7	79,4	80,5	0,60	0,71	0,78	1,25	0,00127	8	11,3	220/380	610001220
1,5	1,1	90S	3495	4,8	7,0	0,31	3,2	4,1	81,2	83,4	84,0	0,52	0,65	0,73	1,25	0,00150	8	12,7	220/380	610001221
2	1,5	90S	3455	5,9	7,5	0,41	3,9	4,0	80,7	85,0	85,5	0,56	0,69	0,77	1,25	0,00161	8	14,5	220/380	610001222
3	2,2	90S	3425	8,0	7,5	0,62	3,7	3,7	84,9	85,8	86,5	0,65	0,77	0,83	1,25	0,00213	8	17,5	220/380	610001223
4	3	90S	3440	10,8	8,0	0,81	3,7	4,3	86,2	88,0	88,5	0,64	0,76	0,82	1,25	0,00246	8	19,2	220/380	610001224
5	3,7	100S	3500	13,0	9,0	1,00	3,1	3,9	86,5	87,9	88,5	0,69	0,79	0,85	1,25	0,00483	8	29,9	220/380/440	610001225

*To obtain the nominal current values (A) at voltage 380V, multiply by 0.577 and at voltage 440V, multiply by 0.5.



THREE-PHASE NEMA IP21 Eco ODP

ODP = Open Drip Proof

These versatile, high-efficiency motors provide reduced electricity consumption. Great cost-benefit ratio, with low noise and vibration levels. Easy maintenance with great quality, providing reliability and savings.

Applications: Concrete mixers, fans, compressors, mills, choppers, forage harvesters, and industrial and commercial applications that require a high starting torque.

Image for illustrative purposes



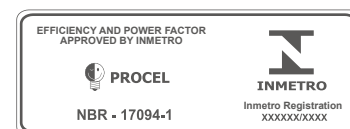
Top of the line
bearings



Insulation class F:
Withstands up to 155° C



Service Factor 1,25



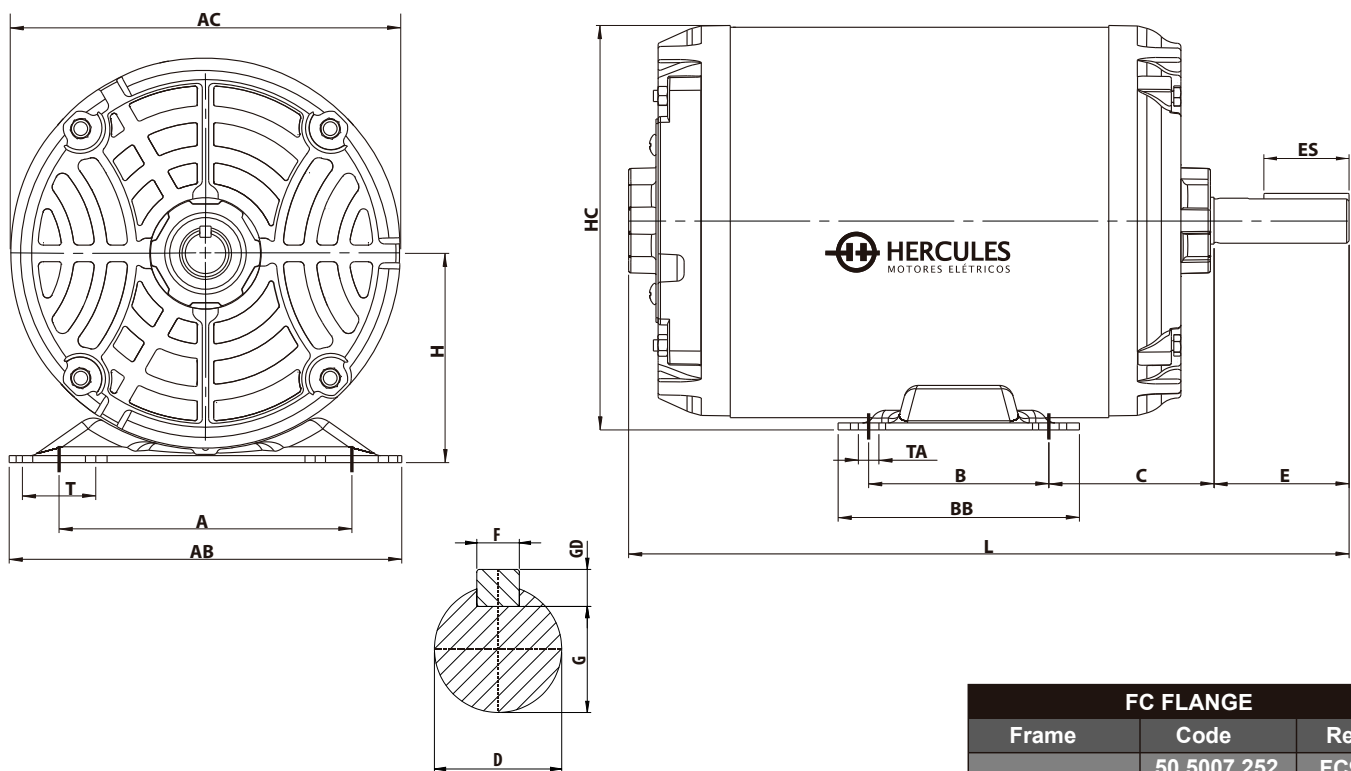
<http://registro.inmetro.gov.br/consulta/>

CHARACTERISTICS

- Efficiency Index 3 (IR3);
- Internal ventilation;
- Mountings with ball bearings;
- Double direction of rotation;
- Category N;
- Voltage: 220/380V;
- Painting: Matte black;
- Cage rotor;
- B3D structural form.

OPTIONAL ITEMS ON REQUEST

- Class H insulation (180°C) with Δt 80k;
- Painting in special colors;
- PTC thermistor;
- Thermostat (bimetallic thermal protector);
- Structural forms in accordance with ABNT NBR 60034-7;
- Frequency: 50Hz;
- Shaft in special dimensions;
- Category D;
- Special bearings;
- Stainless steel shaft;
- Rotation: VI and VIII poles;
- FC Flange
- Special supply voltages.



Note: All H48 and H56 motors are only sold with a standard cover with no option to exchange for a Flange.

FC FLANGE		
Frame	Code	Ref.
N56	50.5007.252	FC95
	50.5007.449	FC149

*Flange dimensions available on Page 04.

MECHANICAL DATA

Frame	HM Code	A	AB	AC	B	BB	C	Shaft End						H	HC	L	T	TA	Bearings	
								D	E	ES	F	G	GD						Front	Rear
H48	610001200	107,6	156	146	69,8	90	63,5	12,7	38,1	*	*	11,5	*	76,2	140	240	31	8,7	6203	6201
	610001201															265				
	605027005																			
	605027006																			
H56	610001202	123,8	166	145	76,2	100	69,8	15,875	47,6	28		13,1		88,9	162	294,1	31	8,7	6204-ZZ	6202-ZZ
	610001204															323,6				
	610001206															358,6				
	610001213															294,6				
N56	605039011	123,8	166	166	76,2	100	69,8	19,05	57,1	36	4,76	16,3	4,76	88,9	172	309,6	31	8,7	6204-ZZ	6202-ZZ
	610001203															324,6				
	610001205															339,6				
	605038018															344,6				
	610001214															374,6				
	610001216															354,6				
	610001208															374,6				
	605038014																			
	605038015																			
	605039012																			
	605039013																			

ELECTRICAL DATA

2 Poles - 60Hz																			
Power		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor C o s			Service Factor SF	M oment of inertia J (Kg m²)	T mrb (s)	Weight (Kg)	HM Code
cv	kW								% of rated power										
									50	75	100	50	75	100					
0,5	0,37	H48	3435	1,5	5,5	0,10	3,1	3.4	68,0	75,5	76,0	0,64	0,76	0,83	1,25	0,00054	10	6,9	610001200
0,75	0,55	H48	3445	2,1	7,2	0,15	3,8	3.8	77,9	78,4	81,1	0,61	0,75	0,82	1,25	0,00067	10	8,0	610001201
1	0,75	H56	3415	3,0	7,0	0,21	3,8	3.8	78,7	81,6	82,2	0,56	0,69	0,77	1,25	0,00058	8	10,1	610001202
1	0,75	N56	3485	3,2	6,7	0,21	3,9	4.3	75,7	79,4	80,5	0,60	0,71	0,78	1,25	0,00127	8	11,1	610001203
1,5	1,1	H56	3430	4,3	7,0	0,31	4,0	4.0	82,0	84,2	84,3	0,57	0,70	0,78	1,25	0,00077	8	12,3	610001204
1,5	1,1	N56	3495	4,8	7,0	0,31	3,2	4.1	81,2	83,4	84,0	0,52	0,65	0,73	1,25	0,00150	8	13,2	610001205
2	1,5	H56	3420	5,6	7,0	0,41	4,1	4.0	84,1	85,5	85,5	0,59	0,72	0,80	1,25	0,00089	8	13,5	610001206
3	2,2	N56	3425	8,0	7,5	0,61	3,8	3.9	86,8	87,6	87,0	0,66	0,77	0,83	1,25	0,00213	8	18,8	610001208
4 Poles - 60Hz																			
Power		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor C o s			Service Factor SF	M oment of inertia J (Kg m²)	T mrb (s)	Weight (Kg)	HM Code
cv	kW								% of rated power										
									50	75	100	50	75	100					
1	0,75	H56	1730	3,1	6,7	0,41	2,8	3.3	80,7	82,6	83,0	0,52	0,66	0,75	1,25	0,00258	8	13,0	610001213
1	0,75	N56	1755	3,3	8,0	0,41	3,2	3,9	80,6	83,6	84,2	0,50	0,63	0,71	1,25	0,00322	8	15,1	610001214
1,5	1,1	N56	1745	4,5	7,0	0,61	3,1	3,4	84,4	86,3	86,5	0,55	0,67	0,75	1,25	0,00382	8	17,4	610001216

The values shown are subject to change without prior notice.

STANDARD SINGLE-PHASE MOTOR IP 55



Click Rural

A motor designed to withstand undervoltage and overvoltage (110 to 127V and 220 to 254V) or (220 to 254V and 440 to 508V)

The single-phase IP55 motors of the Rural H-Eco line were developed with an aluminum housing, providing high robustness, lower weight, and high resistance to corrosive agents. Developed with a great differentiator, using two capacitors, start and permanent, guaranteeing a high-starting torque and high efficiency, providing a reduction in electricity consumption and an excellent cost-benefit ratio.

Applications: Concrete mixers, pumps, compressors, crushers, fans, air conditioning, fertilizer pumps, silo unloaders, mills, milking machines, and others for general use.



Image for illustrative purposes



Frame
injected in high strength aluminum for a lighter product



Removable feet:
Flexibility to change the structural form



Platinum:
Dual contact with SHP



Insulation Class F:
Withstands up to 155°C



Top-of-the-line
bearings



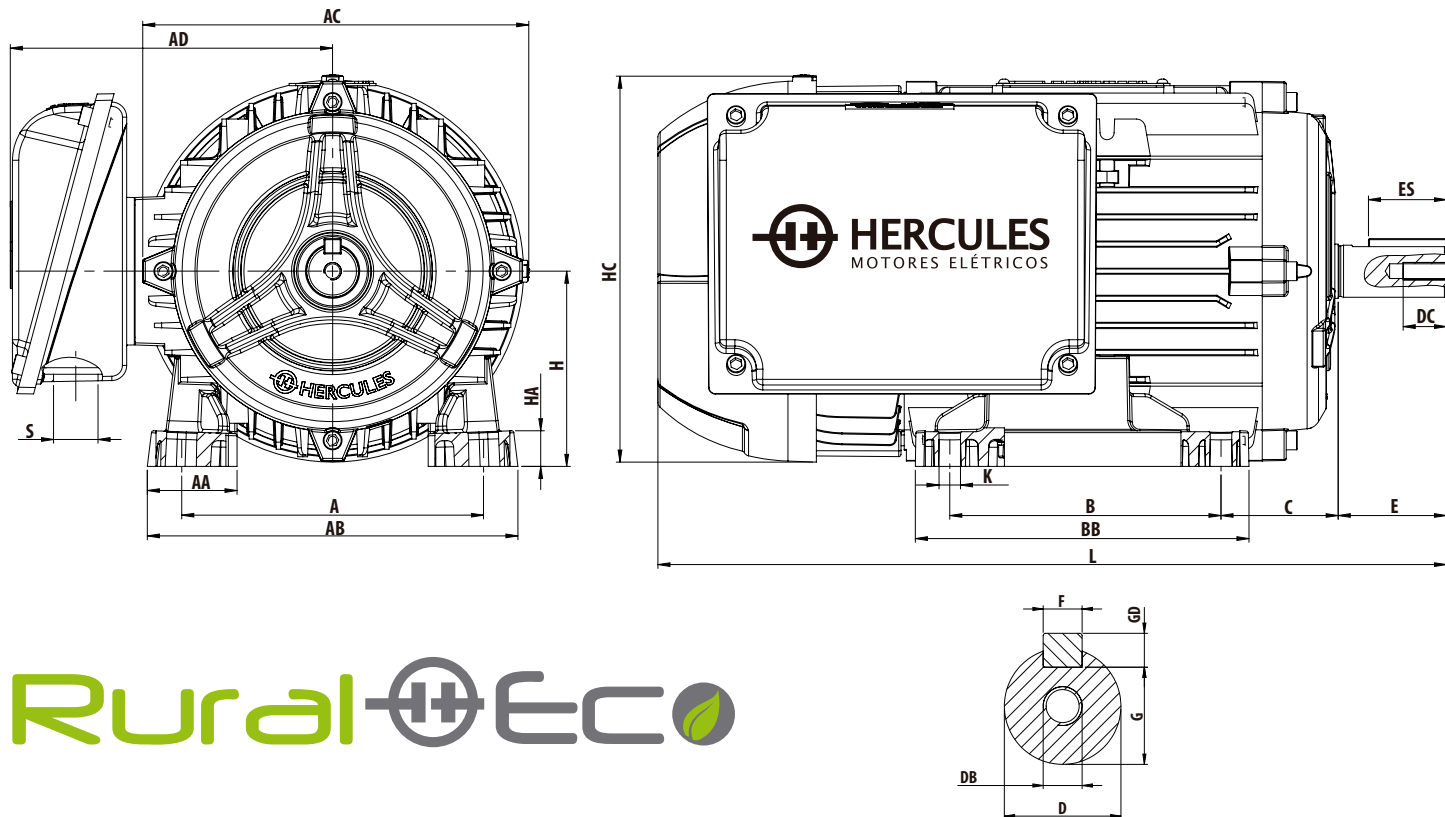
Service factor up to 1,35

CHARACTERISTICS

- High-performance motors;
- It uses two capacitors (start and permanent);
- Capacitors fixed to the box, preventing falls;
- Colored connection cables, facilitating connection;
- Voltage: 110-127/220-254V up to 3 hp and 220-254/440-508V from 2 hp;
- External ventilation;
- Bearings sealed by V-rings;
- Drain for condensed water outlet;
- Cable outlet sealed with self-extinguishing foam;
- Mountings with ball bearings;
- Double direction of rotation;
- Category N;
- Painting: Gray RAL7026;
- Cage rotor;
- B3D structural form;
- Injected aluminum connection box up to housing 112 (housing 132 injected in cast iron).

OPTIONAL ITEMS ON REQUEST

- Class H insulation (180°C) with Δt 80k;
- PTC thermistor;
- Thermostat (bimetallic thermal protector) with cables provided outside the motor (external connection);
- Structural forms in accordance with ABNT NBR 60034-7;
- Frequency 50Hz;
- Special voltages;
- Shaft in special dimensions;
- Cable clamps;
- Special bearings;
- Stainless steel shaft;
- Retainer;
- Motor brake;
- Heating resistance.



MECHANICAL DATA

Frame	A	AA	AB	AC	AD	B	BB	C	Shaft End							DB	DC	I	J	H	HA	HC	K	L	LL	LM	S	Bearings			
									D	E	ES	F	G	GD	Front													Rear			
IEC 63	100		121	130	123	80	96	40	11	23	14	4	8,5	4	M5 x 0,8	10	* - * - *	M5*	63	12	127	7	211	90	99	RWG 1/2" ou M20 x 1,5	6201-ZZ				
IEC 71	112	32	138	145	131	90	112	45	14	30	18	5	11	5							71	10	145					249			6202-ZZ
IEC 80 (S)															M6 x 1	20		M6*	80	15	162	10	276				141	128	BSP 1"	6204-ZZ	6203-ZZ
IEC 80 (L)	125	38	151	158	135	100	134	50	19	40	28	6	15	6																	
IEC 90 (S)															M8 x 1,25	25	Ø20	M8	90	16,5	181	12	323	191	196	BSP 1 1/2"					
IEC 90 (L)	140	41	171	176	142	125	154	56	24	50	36	8	20	7																	
IEC 100 (S)							173	63							M10 x 1,5	30	Ø20	M8	100	203	12	373	191				196	BSP 1 1/2"	6207-ZZ	6206-ZZ	
IEC 100 (L)	160	48	194	205	160	140	177	70	28	60	45	8	24	7																	
IEC 112 (S)															M12 x 1,75	36	Ø30	M12	112	19	224	14,5		407	191	196			BSP 1 1/2"	6209-C3	6208-C3
IEC 112 (L)	190	58	223	226	195	177	70	70	38	80	63	10	33	8																	
IEC 132 (S)						140/178	215	89	38	80	63	10	33	8	M12 x 1,75	30	Ø30	M12	132	24	270	14,5	454	191			196	BSP 1 1/2"		6211-C3	6210-C3
IEC 132 (M/L)	216	64	256	270	216	178/203	239	108	42			12	37	8																	
IEC 160 (M)						210	256	108	42			12	37	8	M16 X 2	36	Ø30	M12	160	22	371	14,5	598		191	196			BSP 1 1/2"	6213-C3	6212-C3
IEC 160 (L)	254	51	292			254	304	108	42			14	42,5	9																	
IEC 180 (M)															M16 X 2	36	Ø30	M12	180	29	391	14,5	607	191			196	BSP 1 1/2"		6215-C3	6214-C3
IEC 180 (L)	279	71	322			241	300	121	48			14	42,5	9																	

ELECTRICAL DATA

2 Poles - 60Hz																					
Power		Frame	RPM	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque Cn (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque Cmax/ Cn	Yield n %			Power factor Cos			Service factor SF	M oment of inertia J (Kgm²)	Tmrb (s)	Weight (Kg)	Voltage (V)	Capacitor Type	HM Code
cv	kW								% of rated power												
									50	75	100	50	75	100							
0,16	0,12	63	3505	1,2	4,1	0,03	0,8	3,3	33,5	43,2	50,6	0,96	0,98	0,99	1,15	0,00025	8	5,2	110-127/220-254	Permanent	610001086
0,25	0,18	63	3495	1,5	4,1	0,05	0,6	2,6	41,7	51,7	58,4	0,97	0,98	0,99	1,15	0,00029	8	5,6	110-127/220-254	Permanent	610001129
0,33	0,25	63	3450	1,7	4,6	0,07	0,6	2,5	48,4	58,6	64,8	0,99	0,99	0,99	1,15	0,00029	8	6,0	110-127/220-254	Permanent	610001062
0,5	0,37	71	3500	2,8	5,7	0,10	0,5	3,0	51,5	62,0	67,9	0,81	0,88	0,92	1,15	0,00061	8	6,7	110-127/220-254	Permanent	610000995
0,75	0,55	71	3455	3,7	5,4	0,15	0,5	2,6	63,4	71,0	74,2	0,77	0,86	0,93	1,15	0,00061	8	7,3	110-127/220-255	Permanent	610000996
1	0,75	90	3520	5,8	8,3	0,20	3,5	4,0	55,8	64,2	71,0	0,65	0,73	0,80	1,15	0,00190	6	18,5	110-127/220-254	Start + Permanent	610000997
1,5	1,1	90	3520	7,2	8,3	0,30	3,0	3,3	69,5	76,6	79,5	0,77	0,84	0,88	1,15	0,00230	6	21,0	110-127/220-254	Start + Permanent	605183006
2	1,5	90	3520	9,8	8,0	0,40	2,5	3,3	68,8	75,5	79,0	0,75	0,83	0,87	1,15	0,00280	6	22,2	110-127/220-254	Start + Permanent	605183007
3	2,2	100	3500	13,8	6,8	0,61	2,0	2,6	67,8	72,2	79,0	0,85	0,90	0,93	1,15	0,00300	6	29,4	110-127/220-254	Start + Permanent	605183008
3	2,2	100	3500	14,4	7,6	0,60	2,8	3,1	64,8	72,8	76,9	0,93	0,96	0,97	1,15	0,00300	6	30,3	220-254/440-508	Start + Permanent	610001063
4	3,0	112	3520	17,9	6,0	0,80	2,5	2,6	82,6	85,1	85,1	0,76	0,84	0,88	1,15	0,00572	6	43,2	220-254/440-508	Start + Permanent	605183009
5	3,7	112	3535	22,6	7,2	1,00	2,5	2,9	82,4	85,5	86,0	0,74	0,83	0,87	1,15	0,00652	6	46,7	220-254/440-508	Start + Permanent	605183010
7,5	5,5	132	3515	29,0	7,3	1,50	2,6	2,7	84,1	87,2	87,8	0,98	0,98	0,98	1,15	0,01444	6	69,7	220-254/440-508	Start + Permanent	605183011
10	7,5	132	3515	39,0	7,4	2,00	2,7	2,7	84,1	87,1	87,5	0,98	0,98	0,98	1,15	0,01611	6	74,2	220-254/440-508	Start + Permanent	605183012
12,5	9,2	132	3520	48,9	7,5	2,50	2,5	2,8	84,4	87,2	87,8	0,97	0,98	0,98	1,15	0,01792	6	78,7	220-254/440-508	Start + Permanent	610000998
15	11	132	3520	58,8	8,2	3,00	2,2	3,1	79,9	84,5	86,1	0,98	0,98	0,99	1,15	0,01973	6	82,7	220/440	Start + Permanent	610001065
4 Poles - 60Hz																					
Power		Frame	RPM	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque Cn (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque Cmax/ Cn	Yield n %			Power factor Cos			Service Factor SF	M oment of inertia J (Kgm²)	Tmrb (s)	Weight (Kg)	Voltage (V)	Capacitor Type	HM Code
cv	kW								% of rated power												
									50	75	100	50	75	100							
0,16	0,12	63	1725	1,2	2,9	0,07	0,5	1,9	35,9	46,0	52,6	0,92	0,94	0,95	1,15	0,00040	8	5,1	110-127/220-254	Permanent	610001066
0,25	0,18	63	1700	1,4	3,1	0,10	0,6	1,9	46,0	56,9	62,8	0,97	0,97	0,98	1,15	0,00040	8	5,4	110-127/220-254	Permanent	610001067
0,33	0,25	71	1720	2,2	2,8	0,14	0,7	1,9	39,6	50,3	56,8	0,94	0,95	0,96	1,15	0,00098	8	7,4	110-127/220-254	Permanent	610001068
0,5	0,37	71	1675	3,0	2,8	0,20	0,6	1,9	48,0	58,3	61,0	0,81	0,86	0,92	1,15	0,00098	8	7,6	110-127/220-254	Permanent	610000999
1	0,75	90	1750	6,1	6,6	0,40	3,0	3,0	57,3	66,2	71,0	0,64	0,70	0,78	1,15	0,00350	6	19,5	110-127/220-254	Start + Permanent	605184006
1,5	1,1	90	1740	8,8	6,3	0,61	2,4	2,7	61,9	70,1	73,0	0,64	0,73	0,79	1,15	0,00450	6	22,7	110-127/220-254	Start + Permanent	605184007
2	1,5	100	1740	10,4	5,7	0,81	2,0	2,3	65,2	71,6	77,0	0,69	0,78	0,82	1,15	0,00980	6	30,2	110-127/220-254	Start + Permanent	605184008
3	2,2	112	1750	16,2	6,0	1,20	2,4	2,4	78,3	81,1	81,0	0,57	0,69	0,76	1,15	0,01094	6	43,2	110-127/220-254	Start + Permanent	605184009
4	3,0	112	1750	18,5	6,3	1,60	2,4	2,4	83,2	84,9	84,1	0,73	0,81	0,86	1,15	0,01351	6	47,7	220-254/440-508	Start + Permanent	605184010
5	3,7	112	1750	24,3	6,5	2,00	2,2	2,5	81,4	84,2	83,8	0,66	0,77	0,82	1,15	0,01433	6	49,7	220-254/440-508	Start + Permanent	605184011
7,5	5,5	132	1770	30,0	6,5	3,00	2,2	2,6	76,7	83,5	86,3	0,91	0,96	0,97	1,15	0,04396	6	72,2	220-254/440-508	Start + Permanent	605184012
10	7,5	132	1765	40,8	5,8	4,00	1,8	2,4	81,6	86,6	87,4	0,83	0,90	0,94	1,15	0,04928	6	77,2	220-254/440-508	Start + Permanent	605184013
12,5	9,2	132	1760	52,0	5,6	5,00	1,8	2,4	79,2	84,4	86,3	0,81	0,90	0,93	1,15	0,05445	6	82,0	220/440	Start + Permanent	605184014
12,5	9,2	132	1760	43,7	5,6	5,00	1,9	2,3	80,4	85,6	87,4	0,87	0,93	0,95	1,15	0,05445	6	82,0	254/508	Start + Permanent	610001069

PREMIUM SINGLE-PHASE MOTOR



Click Rural

A motor designed to withstand undervoltage and overvoltage (110 to 127V and 220 to 254V) or (220 to 254V and 440 to 508V)

Single-phase motor with steel housing, for general use. Developed with a key differentiator by using two capacitors (start and permanent). Guaranteed use in the a wide variety of applications with maximum performance and yield, providing reliability and savings.

Applications: Concrete mixers, fans, compressors, mills, milking machines, bench drills, and others for general use.

Image for illustrative purposes



Platinum:
Dual contact with
SHP



Top-of-the-line
bearings



Insulation Class F:
Withstands up to 155°C



It uses two capacitors
(Start and Permanent)



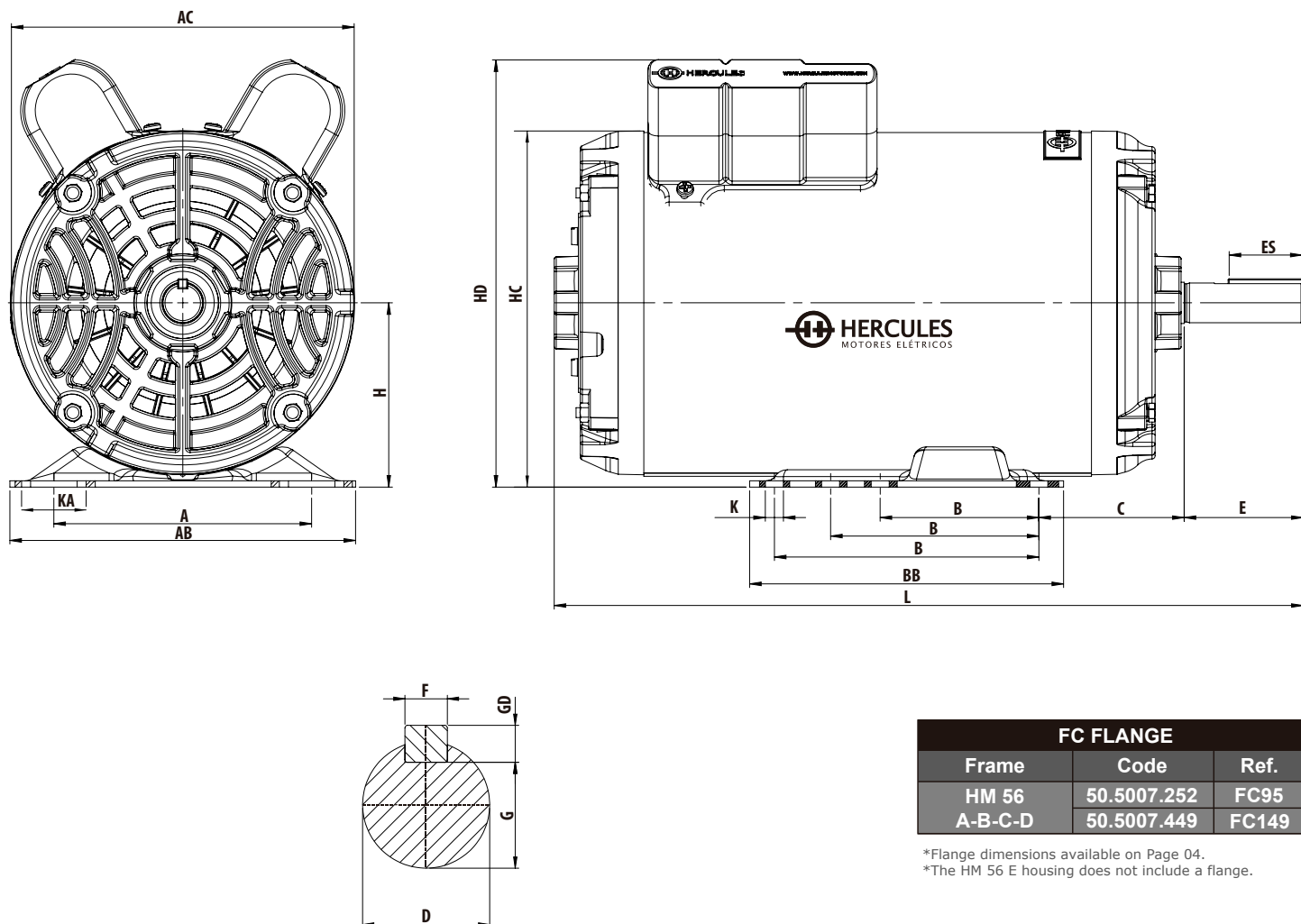
Service factor up to 1,35

CHARACTERISTICS

- Tensión: 110-127/220-254V;
- Condensadores: Arranque y Permanente;
- Tipo de carcasa: chapa de acero;
- Pintura: negro mate.

OPTIONAL ITEMS ON REQUEST

- Motor con protección térmica y cables colocados para conexión externa;
- Clase de aislamiento H(180°C);
- Base removible: Para retirada del motor del equipo con facilidad y seguridad;
- Frecuencia: 50Hz;
- Eje con dimensionales especiales;
- Eje en acero inoxidable;
- Latiguillos especiales de alimentación.



FC FLANGE		
Frame	Code	Ref.
HM 56	50.5007.252	FC95
A-B-C-D	50.5007.449	FC149

*Flange dimensions available on Page 04.
*The HM 56 E housing does not include a flange.

MECHANICAL DATA

Frame	A	AB	AC	B	BB	C	Shaft End						H	HC	HD	L	K	KA	Bearings	
							D	E	ES	F	G	GD							Front	Rear
HM56 A	123,8	166	165	76,2	102	69,8	15,875	47,6	28	4,76	13,1	4,76	88,9	171	205	8,7	31	6204-ZZ	6203-ZZ	
HM56 B				76,2	151		19,05	57,1	36		16,3									
HM56 C																				
HM56 D																				
*HM56 E																				

ELECTRICAL DATA

2 Poles - 60Hz																				
Power		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque Cn (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque Cmax/ Cn	Yield n %			Power factor Cos			Service Factor SF	M oment of inertia J (Kgm²)	Tmrb (s)	Weight (Kg)	Voltage (V)	HM Code
cv	kW								% of rated power											
									50	75	100	50	75	100						
0,75	0,55	N56	3545	4,3	8,5	0,15	3,0	4,1	53,5	62,0	67,5	0,77	0,83	0,87	1,35	0,0012	6	12,7	110-127/220-254	610001078
1,00	0,75	N56	3540	5,2	8,9	0,20	3,4	3,8	63,2	70,6	74,3	0,76	0,83	0,87	1,35	0,0015	6	14,6	110-127/220-254	610001079
1,50	1,10	N56	3540	7,6	8,7	0,30	3,0	3,4	66,1	73,0	76,5	0,73	0,81	0,86	1,25	0,0018	6	17,2	110-127/220-254	610001080
2,00	1,50	N56	3540	9,6	8,7	0,41	2,4	3,8	69,5	76,4	79,4	0,76	0,84	0,88	1,25	0,0023	6	20,2	110-127/220-254	610001081
3,00	2,20	N56	3500	13,9	6,9	0,60	2,1	2,8	77,0	81,0	83,0	0,72	0,81	0,86	1,15	0,0023	6	20,6	110-127/220-254	605123408
4 Poles - 60Hz																				
Power		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque Cn (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque Cmax/ Cn	Yield n %			Power factor Cos			Service Factor SF	M oment of inertia J (Kgm²)	Tmrb (s)	Weight (Kg)	Voltage (V)	HM Code
cv	kW								% of rated power											
									50	75	100	50	75	100						
0,75	0,55	N56	1755	5,3	6,3	0,31	2,8	3,1	49,1	57,9	63,2	0,60	0,69	0,76	1,35	0,0043	6	13,5	110-127/220-254	610001082
1,00	0,75	N56	1755	7,0	6,25	0,41	2,3	3,2	50,2	59,9	64,9	0,59	0,67	0,74	1,25	0,0055	6	15,8	110-127/220-254	610001083
1,50	1,10	N56	1750	9,9	5,5	0,61	2,1	3,0	56,5	64,8	68,6	0,56	0,66	0,74	1,25	0,0072	6	19,8	110-127/220-254	610001084
2,00	1,50	N56	1730	11,9	5	0,83	2,1	2,5	65,6	71,4	73,1	0,60	0,70	0,77	1,15	0,0072	6	20,5	110-127/220-254	610001085

The values shown are subject to change without prior notice.

STANDARD MOTOR SINGLE-PHASE IP 21



Click Rural

A motor designed to withstand undervoltage and overvoltage (110 to 127V and 220 to 254V) or (220 to 254V and 440 to 508V)

Single-phase motor with steel housing, for general use. Developed to serve a wide variety of applications with maximum performance and yield, providing reliability and savings.

Applications: Concrete mixers, fans, compressors, mills, milking machines, bench drills, and others for general use.

Image for illustrative purposes



Top-of-the-line
bearings



Insulation Class F:
Withstands up to 155°C



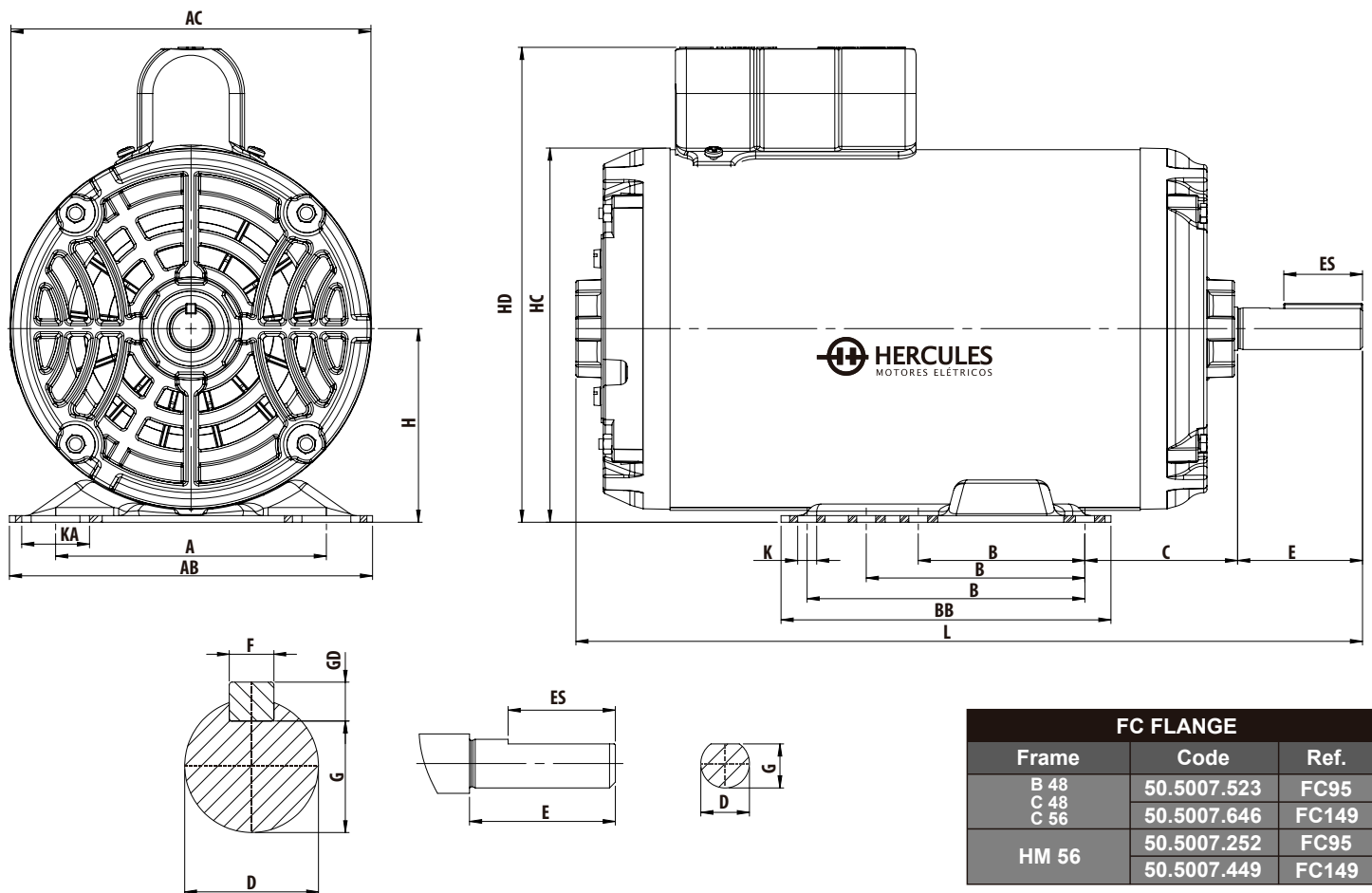
Service factor up to 1,35

CHARACTERISTICS

- Voltage: 110-127/220-254V;
- Capacitor: Start;
- Housing type: steel sheet;
- Paint: matte black.

OPTIONAL ITEMS ON REQUEST

- Motor with thermal protection and cables available for external connection;
- Insulation class H (180°C);
- Frequency: 50Hz;
- Shaft in special dimensions;
- Stainless steel shaft;
- Special wire harnesses.



MECHANICAL DATA

Frame	A	AB	AC	B	BB	C	Shaft End						H	HC	HD	L	K	KA	Bearings	
							D	E	ES	F	G	GD							Front	Rear
B48	107	156	144	69,8	90	63,5	12,7	38,1	28	*	11,4	*	76,2	148	*	254			6203-ZZ*6202-ZZ	31
C48														162		264				
C56							15,875	47,6	28		13,1					278				
HM56 A				76,2	102					4,76		4,76	88,9	171	217	305				
HM56 B	123,8	166	167			69,8	19,05	57,1	36		16,3					325	8,7		6204-ZZ*6203-ZZ	
HM56 C																360				
HM56 D				100**127**	151															

ELECTRICAL DATA

2 Poles - 60Hz																				
P o w e r		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor C o s			Service Factor SF	Moment of inertia J (Kg m²)	T m r b (s)	Weight (Kg)	Voltage (V)	HM Code
c v	kW								% of rated power											
									50	75	100	50	75	100						
0,33	0,25	B48	3515	2,8	7,0	0,07	2,7	3,2	70,5	72,7	73,0	0,57	0,65	0,71	1,35	0,0008	6	7,8	110-127/220-254	610001047
0,50	0,37	C48	3500	3,5	6,8	0,10	2,5	3,0	73,5	73,9	74,4	0,60	0,70	0,76	1,25	0,0010	6	8,9	110-127/220-254	605123002
0,75	0,55	C56	3490	5,1	5,8	0,15	2,4	2,7	62,3	67,8	68,4	0,61	0,70	0,77	1,25	0,0012	6	10,0	110-127/220-254	610001048
0,75	0,55	HM56 A	3520	4,8	7,5	0,15	2,7	3,1	60,0	66,5	69,1	0,60	0,70	0,76	1,25	0,0014	6	13,6	110-127/220-254	610001049
1,00	0,75	HM56 B	3530	6,4	7,2	0,20	2,8	3,3	62,9	69,1	71,6	0,56	0,66	0,73	1,25	0,0016	6	15,4	110-127/220-254	610001070
1,50	1,10	HM56 C	3510	8,7	6,7	0,31	2,3	2,9	67,0	71,5	72,8	0,63	0,73	0,79	1,15	0,0020	6	17,8	110-127/220-254	610001071
2,00	1,50	HM56 D	3510	11,8	6,8	0,41	2,2	3,0	68,8	73,6	75,4	0,57	0,68	0,75	1,15	0,0023	6	20,0	110-127/220-254	610001013
3,00	2,20	HM56 D	3480	16,5	5,6	0,62	2,1	2,6	73,0	77,0	78,0	0,58	0,69	0,78	1,00	0,0023	6	21,0	110-127/220-254	610001072
4 Poles - 60Hz																				
P o w e r		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor C o s			Service Factor SF	Moment of inertia J (Kg m²)	T m r b (s)	Weight (Kg)	Voltage (V)	HM Code
c v	kW								% of rated power											
									50	75	100	50	75	100						
0,16	0,12	B48	1750	2,0	5,3	0,07	3,1	3,0	37,7	46,3	51,7	0,40	0,47	0,53	1,35	0,0013	6	7,2	110-127/220-254	610001073
0,25	0,18	B48	1735	2,6	4,9	0,10	2,5	2,5	43,5	51,2	54,9	0,44	0,52	0,60	1,35	0,0016	6	8,2	110-127/220-254	610001074
0,33	0,25	B48	1745	3,6	4,5	0,14	3,0	3,0	41,2	49,9	54,7	0,43	0,50	0,57	1,35	0,0018	6	9,2	110-127/220-254	610001075
0,50	0,37	C48	1730	4,5	4,8	0,21	2,4	2,4	55,1	60,8	62,6	0,46	0,55	0,63	1,25	0,0021	6	10,2	110-127/220-254	610001076
0,50	0,37	C56	1730	4,5	4,8	0,21	2,4	2,4	55,1	60,8	62,6	0,46	0,55	0,63	1,25	0,0021	6	10,5	110-127/220-254	610001077
0,75	0,55	HM56 B	1735	6,1	4,8	0,31	2,4	2,5	54,3	60,1	62,7	0,47	0,58	0,66	1,25	0,0047	6	13,9	110-127/220-254	610001014
1	0,75	HM56 B	1740	8,0	4,8	0,41	2,9	2,5	53,4	59,5	62,2	0,50	0,60	0,68	1,15	0,0062	6	16,8	110-127/220-254	610001015
1,5	1,10	HM56 C	1730	10,7	4,6	0,62	2,3	2,4	60,5	65,7	66,9	0,52	0,63	0,71	1,15	0,0068	6	18,9	110-127/220-254	610000993
2	1,50	HM56 D	1720	13,7	5	0,84	2,0	2,4	65	70	71	0,50	0,62	0,69	1,00	0,0098	6	22,2	110-127/220-254	610000994

The values shown are subject to change without prior notice.

STANDARD SINGLE-PHASE MOTOR IP 44



Click Rural
Motor proyectado para soportar
subtensión y sobretensión
(110 a 127V y 220 a 254V)

IP44 SEMI-SHIELDED single-phase motor, special for environments with dust and solid waste, including steel housing, for general use. Developed to serve a wide variety of applications, with a great cost-benefit ratio and low noise and vibration levels.

Applications: Fans, compressors, mills, choppers, forage harvesters, and others for general use.

Image for illustrative purposes



Platinum:
Dual contact with
SHP



Top-of-the-line
bearings



Insulation Class F:
Withstands up to 155°C



It uses two capacitors
(Start and Permanent)



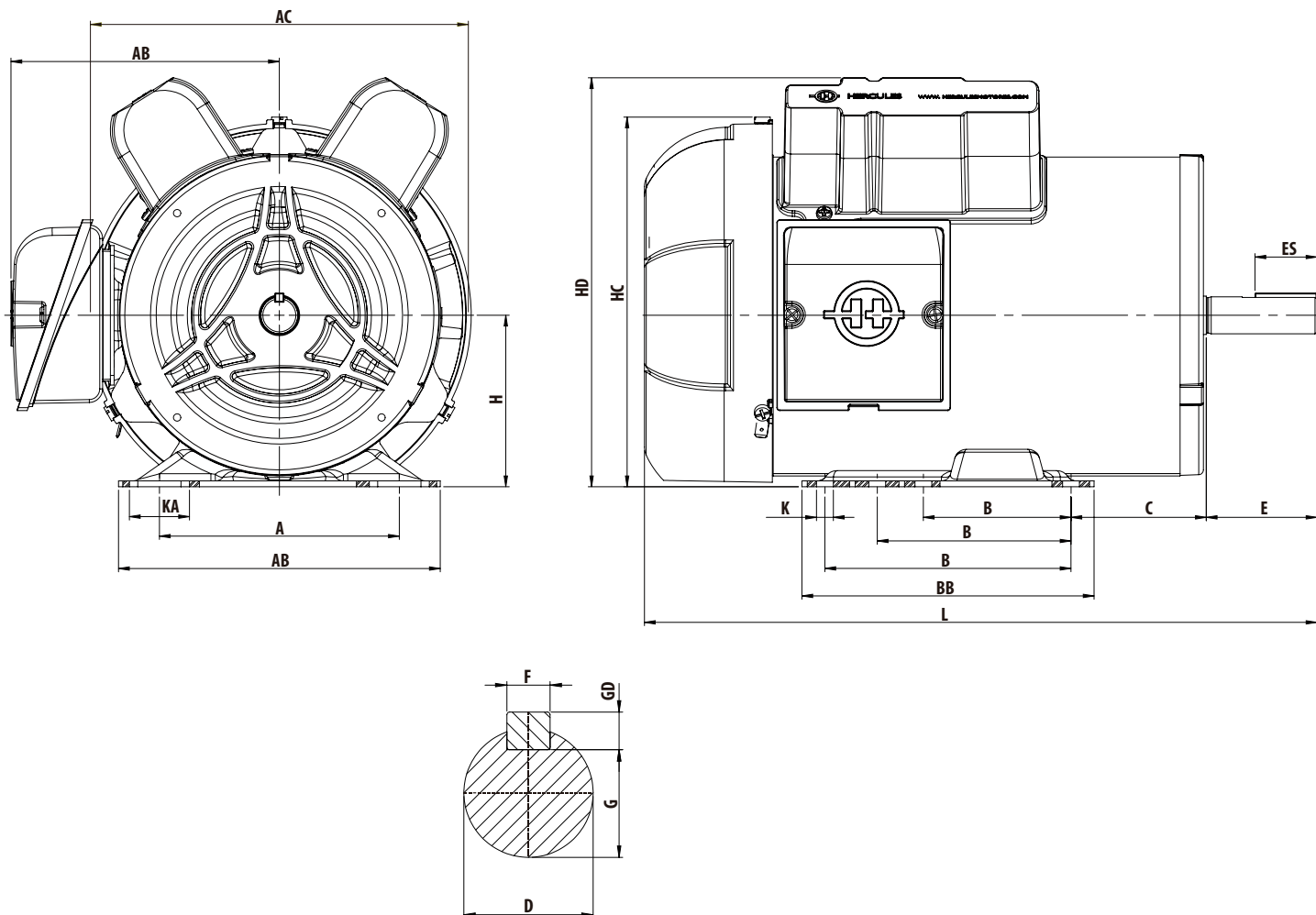
Service factor up to 1,35

CHARACTERISTICS

- External ventilation;
- Mountings with ball bearings;
- Double direction of rotation;
- Category N;
- Voltage: 110-127/220-254V;
- Painting: Matte black;
- Cage rotor;
- B3D structural form.

OPTIONAL ITEMS ON REQUEST

- Class H insulation (180°C) with Δt 80k;
- PTC thermistor;
- Thermostat (bimetallic thermal protector);
- Structural forms in accordance with ABNT;
- Frequency: 50Hz;
- Shaft in special dimensions;
- Special voltages;
- Special bearings;
- Stainless steel shaft;
- Flanges on request.



MECHANICAL DATA

HM Code	A	AB	AC	B	BB	C	Shaft End						H	HC	HD	L	K	KA	Bearings	
							D	E	ES	F	G	GD							Front	Rear
605012246	123,8	166	145	76,2	102	69,8	15,875	47,6	32	4,76	13,1	4,76	88,9	190	212	287	8,7	31	6204-ZZ	6203-ZZ
605012247							19,05	57,1			16,3					297				
605012248																307				
605012249				324																
605012250				348																
605012251				378																

ELECTRICAL DATA

4 Poles - 60Hz																		
Power		R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor Cos			Service Factor SF	M oment of inertia J (Kg m²)	T m r b (s)	Weight (Kg)	HM Code
C V	K W							% of rated power										
								50	75	100	50	75	100					
1/3	0,25	1750	2,2	8,4	0,14	2,6	3,0	43	52	60	0,73	0,81	0,84	1,35	0,0029	6	11,5	605012246
1/2	0,37	1750	2,7	7,6	0,20	2,1	2,5	51	60	65	0,90	0,92	0,94	1,25	0,0037	6	12,7	605012247
3/4	0,55	1750	4,2	7,3	0,30	2,5	2,8	56	64	70	0,74	0,82	0,87	1,25	0,0045	6	14,5	605012248
1	0,75	1750	5,5	7,1	0,40	2,3	2,7	58	66	72	0,70	0,79	0,85	1,15	0,0057	6	16,2	605012249
1,5	1,10	1750	7,8	6,8	0,61	2,1	2,6	64	71	75	0,70	0,79	0,85	1,15	0,0083	6	19,8	605012250
2	1,50	1730	10,5	5,7	0,81	2,1	2,2	70	74	76	0,66	0,76	0,83	1,00	0,0098	6	23,5	605012251

The values shown are subject to change without prior notice.

SPECIAL FOR MOTOR PUMPS

SINGLE-PHASE / THREE-PHASE

Single-phase motor in steel housing, for use in commercial and residential motor pumps. Developed to guarantee maximum performance and yield, providing reliability and savings.

Applications: centrifugal pumps in industrial, commercial, building, residential and agricultural applications such as pool filters, hot tubs, and water distribution in general.

Image for illustrative purposes



Top-of-the-line
bearings

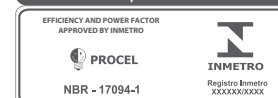


Insulation Class F:
Withstands up to 155°C



Service factor up to 1,35

INMETRO certification for
three-phase motors



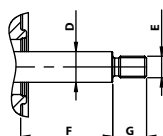
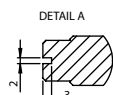
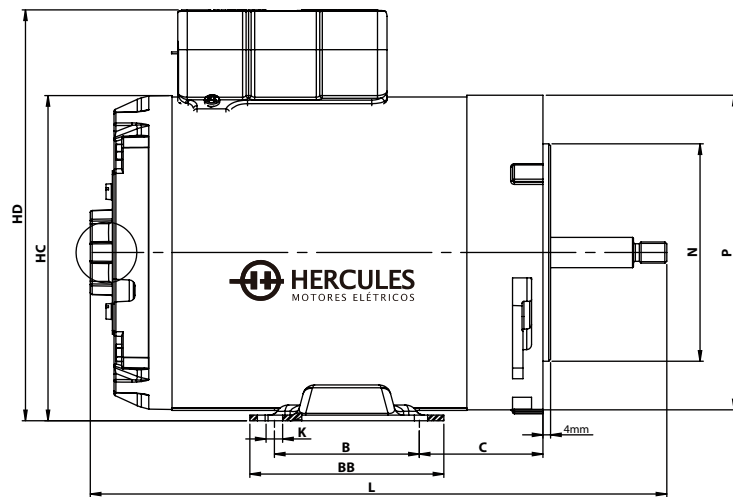
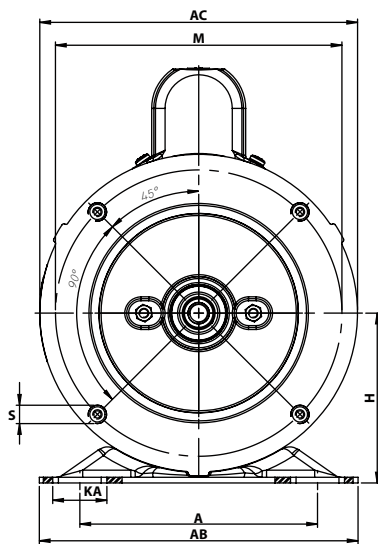
<http://registro.inmetro.gov.br/consulta/>

SINGLE-PHASE MOTOR CHARACTERISTICS

- Click Rural: supports undervoltage and overvoltage
- (110 a 127V/220 a 254V);
- Frequency: 60Hz (50Hz on request);
- Voltage: 110-127V/220-254V;
- Start capacitor;
- Housing type: steel sheet;
- Paint: matte black;
- Internal ventilation;
- Threaded shaft end;
- V-ring.

THREE-PHASE MOTOR CHARACTERISTICS

- Efficiency Index 3 (IR3);
- Frequency: 60Hz (50Hz on request);
- Housing type: steel sheet;
- Paint: matte black;
- Internal ventilation;
- Threaded shaft end;
- B34 structural form;
- Voltage: 220/380V.



FRAME	M	N	P	S	Number of holes
FC-149	149,2	114,3	166	UNC 3/8" x 16 F.P.P.	4

MECHANICAL DATA

Code	A	AB	AC	B	BB	C	Shaft End					H	HC	HD	L	K	KA	Bearings						
							D	E		E1	F							G	Front	Rear				
605115068	123,8	166	166	76,2	102	65	15,88	UNF 7/16" X 20 F.P.P.	*	47,6	17,5	88,9	171	216	303	8,7	31	6204-ZZ	6203-ZZ					
605115073													162	*	281			6203-DDU	6201-ZZ					
605115074															271									
605115075															286									
605115076															296									
605115080				76,2**100**127	151								15,88	UNF 7/16" X 20 F.P.P.	47,6			17,5	88,9	171	205	318	6204-ZZ	6203-ZZ
610000436																				76,2	102	358	6203-DDU	6202-ZZ
605115082																						286		
610001226																						296		
610001227																						318		
610001228				76,2**100**127	151		15,88	UNF 1/4" X 28 F.P.P.	47,6	17,5	88,9	161								*	318	6204-DDU	6203-ZZ	
610001229												171								333				
610001230																				378				
610001231																								

ELECTRICAL DATA

SINGLE-PHASE																				
Power		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor C o s			Service Factor SF	M oment of inertia J (Kg m²)	T m r b (s)	Weight (Kg)	Voltage (V)	HM Code
c v	kW								% of rated power											
									50	75	100	50	75	100						
0,25	0,18	H56	3510	2,3	5,2	0,05	2,4	2,8	38	47	55	0,53	0,60	0,66	1,75	0,0004	6	7,0	110-127/220-254	605115074
0,33	0,25	H56	3520	2,8	6,5	0,07	2,9	3,1	46	52	60	0,54	0,61	0,66	1,75	0,0007	6	8,1	110-127/220-254	605115073
0,50	0,37	H56	3500	3,8	5,8	0,10	2,0	2,8	66	71	71	0,61	0,68	0,75	1,60	0,0010	6	9,2	110-127/220-254	605115075
0,75	0,55	H56	3510	4,9	6,0	0,15	2,3	2,8	57	64	69	0,62	0,71	0,75	1,25	0,0013	6	10,2	110-127/220-254	605115076
1,00	0,75	N56	3500	6,0	6,8	0,20	2,3	2,9	61	69	75	0,62	0,70	0,75	1,25	0,0013	6	13,7	110-127/220-254	605115068
1,50	1,10	N56	3530	8,4	6,8	0,30	2,0	3,1	62	70	75	0,70	0,77	0,81	1,30	0,0019	6	15,7	110-127/220-254	605115080
2,00	1,50	N56	3490	10,0	6,5	0,40	2,0	2,8	65	72	78	0,73	0,80	0,85	1,20	0,0019	6	17,1	110-127/220-254	610000436
3,00	2,20	N56	3450	13,5	6,0	0,61	1,8	2,3	65	73	78	0,82	0,89	0,95	1,15	0,0028	6	21,5	110-127/220-254	605115082
THREE-PHASE																				
Power		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor C o s			Service Factor SF	M oment of inertia J (Kg m²)	T m r b (s)	Weight (Kg)	Voltage (V)	HM Code
c v	kW								% of rated power											
									50	75	100	50	75	100						
0,5	0,37	H56	3410	1,5	5,8	0,11	2,9	3,1	67,2	72,4	73,8	0,70	0,79	0,85	1,60	0,00050	8	6,8	220/380	610001226
0,75	0,55	H56	3430	2,3	5,7	0,16	2,9	3,2	71,7	75,2	76,8	0,66	0,77	0,84	1,40	0,00064	8	8,2	220/380	610001227
1	0,75	H56	3400	2,8	6,6	0,21	4,2	3,8	80,8	82,7	82,5	0,70	0,79	0,85	1,40	0,00680	8	9,4	220/380	610001228
1,5	1,1	N56	3445	4,4	6,7	0,31	3,3	3,5	83,7	84,7	84,0	0,62	0,74	0,81	1,30	0,00085	8	12,1	220/380	610001229
2	1,5	N56	3465	5,8	7,6	0,41	3,5	3,8	83,5	85,1	85,5	0,60	0,72	0,80	1,60	0,00110	8	14,6	220/380	610001230
3	2,2	N56	3480	8,7	7,9	0,62	3,4	4,1	83,1	85,1	86,5	0,59	0,71	0,83	1,25	0,00240	8	17,7	220/380	610001231

The values shown are subject to change without prior notice.

SPECIAL FOR COMPRESSOR

SINGLE-PHASE / THREE-PHASE

Single-phase motor in steel housing. Developed specifically for the compressor segment, guaranteeing maximum performance and efficiency and providing reliability and savings.

Image for illustrative purposes



Top-of-the-line bearings



Insulation Class F:
Withstands up to 155°C



Service factor up to 1,35

SINGLE-PHASE MOTOR CHARACTERISTICS

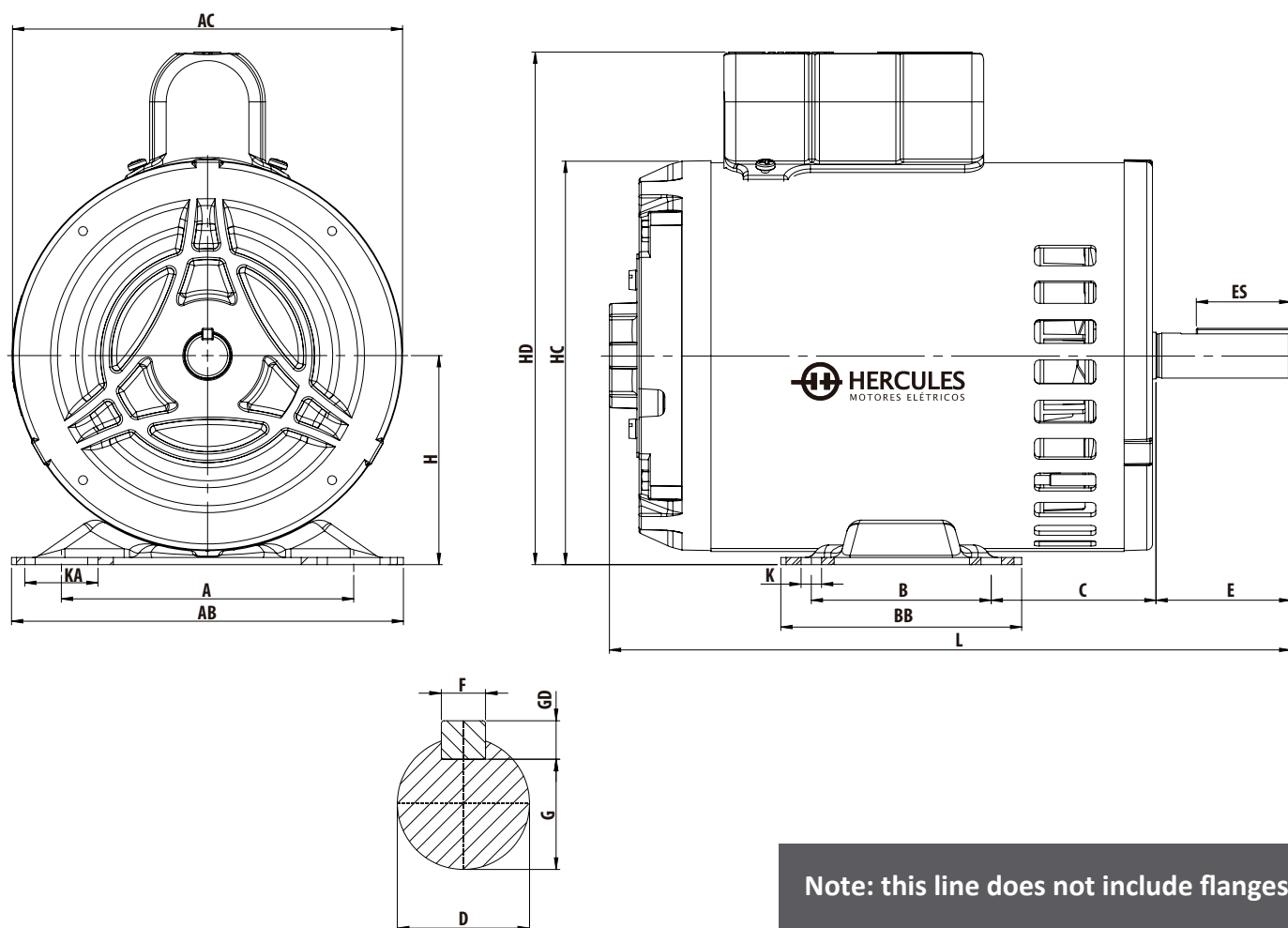
- Voltage: 110-127/220-254V;
- S1 Work Regime;
- Capacitors: Start and Permanent;
- Housing type: Steel sheet;
- Paint: matte black.

THREE-PHASE MOTOR CHARACTERISTICS

- Voltage: 220/380V;
- S3 Work Regime – 75%;
- Housing type: Steel sheet;
- Paint: matte black.

OPTIONAL ITEMS ON REQUEST

- Insulation class H (180°C);
- Special wire harnesses;
- Motor with thermal protection and cables available for external connection;
- Shaft in special dimensions;
- Stainless steel shaft.



MECHANICAL DATA

Code	A	AB	AC	B	BB	C	Shaft End						H	HC	HD	L	K	KA	Bearings	
							D	E	ES	F	G	GD							Front	Rear
610001191	123,8	166	165	76,2	102	69,8	19,05	57,1	40	4,76	16,3	4,76	88,9	171	217	304	8,7	31	6204-ZZ	6203-ZZ
610001192															289					
605017013				100** 127**	151										304					
605017012															334					
610001193															234					
610001194															334					

ELECTRICAL DATA

2 Poles - 60Hz																			
P ower		Phases	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor C o s			Service Factor SF	M oment of inertia J (Kgm²)	T m rb (s)	Weight (Kg)	HM Code
c v	kW								% of rated power										
									50	75	100	50	75	100					
1,00	0,75	1	3500	6,3	6,5	0,20	2,8	2,7	62,1	67,4	69,3	0,61	0,71	0,77	1,15	0,0013	6	13,6	610001191
1,50	1,10		3510	9,3	6,4	0,31	2,6	3,0	65,0	70,6	72,6	0,56	0,67	0,74	1,15	0,0016	6	15,5	610001192
2,00	1,50		3505	12,2	6,4	0,41	2,2	3,2	66,3	71,4	73,1	0,56	0,67	0,75	1,15	0,0016	6	17,8	610001193
3,00	2,20		3455	16,7	5,4	0,62	1,4	2,3	71,7	74,1	73,2	0,63	0,75	0,82	1,15	0,0023	6	20,1	610001194
2,00	1,50	3	3465	5,9	6,4	0,41	3,2	3,7	77	80	83	0,60	0,72	0,79	1,15	0,0014	6	13,4	610001195
5,00	3,70		3320	14,3	6,0	1,06	3,0	3,2	72	76	78	0,66	0,79	0,87	1,00	0,0021	6	17,7	610001196

The values shown are subject to change without prior notice.

SPECIAL FOR POULTRY

SINGLE-PHASE / THREE-PHASE



Click Rural

A motor designed to withstand undervoltage and overvoltage (110 to 127V and 220 to 254V) or (220 to 254V and 440 to 508V)

IP44 motor with steel housing, developed especially for the poultry sector, ensuring maximum performance and efficiency and providing reliability and savings.

Note: MOTORS SHIPPED WITH TWO SPARE NUTS 3/16.



Image for illustrative purposes



Top-of-the-line bearings



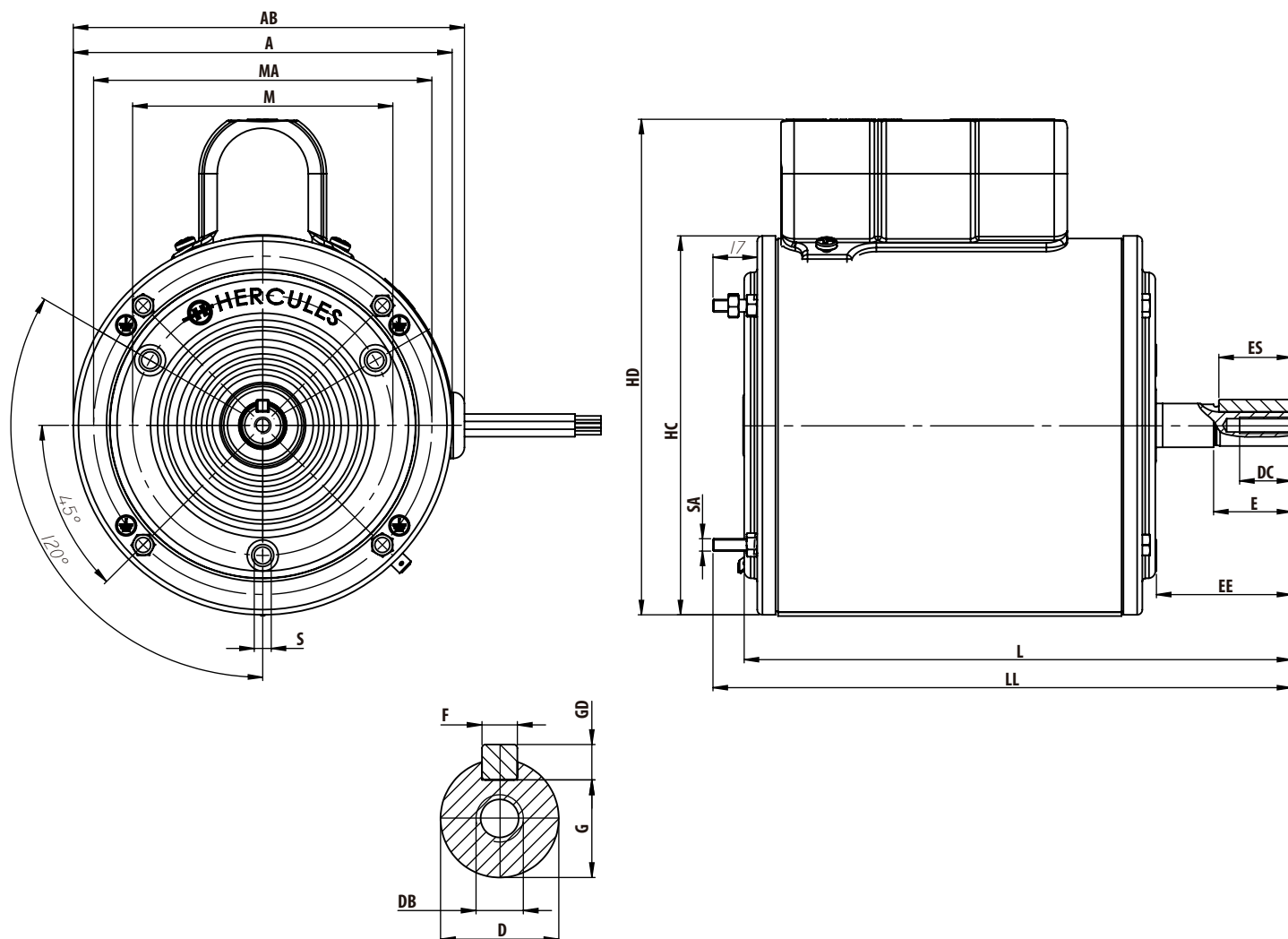
Insulation Class F:
Withstands up to 155°C

CHARACTERISTICS

- Frequency: 60Hz;
- Voltage: 127/220V (single-phase 60Hz) and 220/380V (three-phase 50/60Hz);
- Capacitor: Permanent (single-phase);
- Housing type: Steel sheet;
- Painting: Matte black.

OPTIONAL ITEMS ON REQUEST

- Special wire harnesses;
- Insulation class H (180°C);
- PTC thermistor;
- Thermostat (bimetallic thermal protector);
- Frequency: 50Hz (single-phase and three-phase);
- Shaft in special dimensions;
- Special voltages;
- Stainless steel shaft;
- Rotation: 4 poles



MECHANICAL DATA

Code	A	AB	M	MA	EE	Shaft End						DB	DC	S	SA	HD	HC	L	LL	Bearings	
						D	E	ES	F	G	GD									Front	Rear
60.5144.013	146	151	100	130	51	15,875	30	28	4,76	13,1	4,76	UNC 1/4" x 20 F.P.P.	20	UNC 5/16" x 18 F.P.P.	UNC 3/16" x 24 F.P.P.	***	146	191	203	6203-ZZ	6202-ZZ
60.5144.012					52													211	223		
60.5144.011																		275	289		

ELECTRICAL DATA

2 Poles - 60Hz																				
Power		Phases	Frequency (Hz)	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque Cmax/ C n	Yield n %			Power factor Cos			Service Factor SF	M oment of inertia J (Kg m²)	T mrb (s)	Weight (Kg)	H M Code
cv	kW									% de la potencia nominal										
										50	75	100	50	75	100					
0,50	0,37	1	50//60	930//1145	2,95//2,70	3,0//3,15	0,31	2,8	2,2	41,0	52,0	65,0	0,97	0,96	0,96	1,15	0,0030	6	15,0	605144011
0,50	0,37	1	60	1060	2,9	2,3	0,31	0,4	1,3	56,0	66,0	68,0	0,88	0,90	0,91	1,00	0,0023	6	9,8	605144012
0,50	0,37	3	60	1060	2,4	3,1	0,33	1,9	2,2	60,0	65,0	64,0	0,44	0,54	0,64	1,00	0,0023	6	7,8	605144013

SPECIAL FOR CONCRETE MIXERS



Click Rural

A motor designed to withstand undervoltage and overvoltage (110 to 127V and 220 to 254V) or (220 to 254V and 440 to 508V)

Single-phase motor with steel frame, for general use. Developed with a key differentiator by using two capacitors (start and permanent), guaranteeing use in a wide variety of applications, with maximum performance and efficiency, providing into reliability and savings.

Image for illustrative purposes



Platinum:
Dual contact with
SHP



Top-of-the-line
bearings



Insulation Class F:
Withstands up to 155°C



It uses two capacitors
(Start and Permanent)



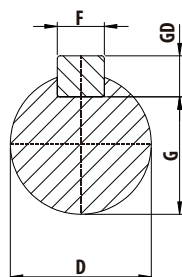
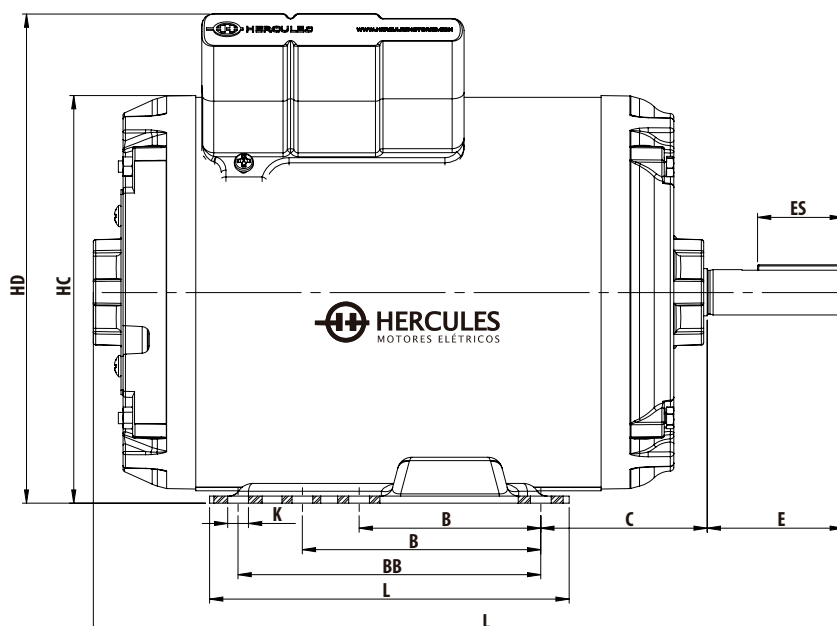
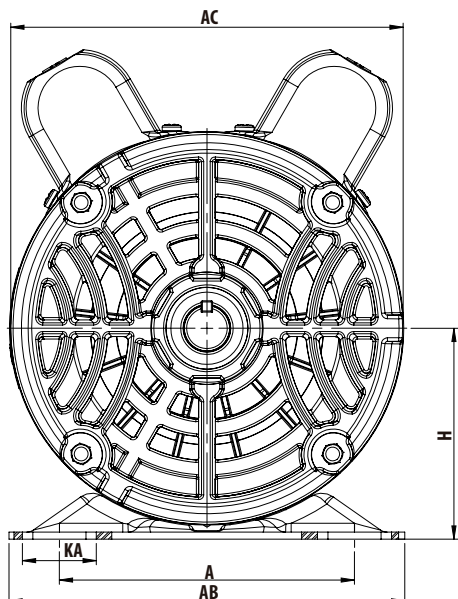
Service factor up to 1,35

CHARACTERISTICS

- Frequency: 60Hz;
- Voltage: 110-127/220-254V
- Capacitors: Start and Permanent
- Housing type: steel sheet
- Paint: matte black

OPTIONAL ITEMS ON REQUEST

- Motor con protección térmica y cables colocados para afuera del motor;
- Clase de aislamiento H(180°C);
- Base removible, para retirada del motor del equipo con facilidad y seguridad;
- Frecuencia 50Hz;
- Eje con dimensiones especiales;
- Eje en acero inoxidable;
- Latiguillos de alimentación especiales.



FC FLANGE	
Code	Ref.
50.5007.252	FC95
50.5007.449	FC149

*Flange dimensions available on Page 04.

MECHANICAL DATA

Code	A	AB	AC	B	BB	C	Shaft End						H	HC	HD	L	K	KA	Bearings	
							D	E	ES	F	G	GD							Front	Rear
610001197	123,7	166	165	76,20	102	57	19,05	57,10	36	4,76	16,30	4,76	88,5	171	205	274	8,70	31	6204-ZZ	6203-ZZ
610001198				100** 127**	151	68														
610001199																				

ELECTRICAL DATA

4 Poles - 60Hz																		
P o w e r		R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor C o s			Service Factor S F	M o m e n t of inertia J (Kg m ²)	T m r b (s)	Weight (Kg)	H M Code
c v	k W							% of rated power										
								50	75	100	50	75	100					
1,00	0,75	1715	5,3	5,0	0,41	1,6	1,8	62,6	68,5	69,5	0,81	0,88	0,91	1,00	0,0044	6	13,6	610001197
1,50	1,10	1700	8,6	4,4	0,63	1,3	1,8	61,7	66,4	65,7	0,76	0,85	0,89	1,00	0,0056	6	16,1	610001198
2,00	1,50	1695	10,6	4,3	0,84	1,3	1,8	65,8	69,8	69,5	0,80	0,87	0,90	1,00	0,0061	6	17,7	610001199

The values shown are subject to change without prior notice.

THREE-PHASE MOTOR IP55 50Hz

Image for illustrative purposes



Frame
injected in high-strength
aluminum for a lighter
product



Removable feet:
Flexibility to change the
structural form



Deflector cover injected in
High-Resistance Polymer



Junction box:
possibility to rotate
in 90° turns



Coils in copper wire



Insulation Class F:
Withstands up to 155°C



Service Factor 1,25

NOTE: THE MECHANICAL DATA, CHARACTERISTICS AND OPTIONS ARE THE SAME AS THE 60HZ MOTORS (PAGE 02).

ELECTRICAL DATA

2 Poles																				
P o w e r		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor C o s			Service Factor SF	M o m e n t of inertia J (Kg m²)	T m r b (s)	Weight (Kg)	Voltage (V)	H M Code
C V	K W								% of rated power											
									50	75	100	50	75	100						
0,75	0,55	71L	2780	2,2	6,2	0,19	3,4	3,5	73,0	76,0	78,0	0,65	0,80	0,85	1,15	0,00069	10	8,3	220/380	605128105
1	0,75	80	2865	2,9	7,6	0,25	4,4	4,5	80,0	82,0	84,0	0,59	0,74	0,80	1,15	0,00095	8	10,0	220/380	605128106
1,5	1,1	80	2850	4,5	6,5	0,37	4,2	4,3	80,0	82,8	83,2	0,53	0,66	0,75	1,15	0,00105	8	10,9	220/380	605128107
2	1,5	90	2850	5,1	6,7	0,50	3,5	3,6	83,0	85,0	87,0	0,67	0,81	0,86	1,15	0,00215	8	16,2	220/380	605128108
3	2,2	90	2880	8,5	7,6	0,74	4,5	4,5	81,0	84,0	86,0	0,62	0,73	0,78	1,15	0,00270	8	17,8	220/380	605128109
4	3,0	100	2930	10,4	9,8	0,96	3,6	4,5	86,1	88,3	88,8	0,69	0,80	0,86	1,15	0,00568	8	28,5	220/380	605128110
5,5	4,0	112	2900	14,5	6,9	1,35	3,0	3,4	87,0	88,1	87,8	0,70	0,80	0,86	1,15	0,00898	8	38,2	220/380	605128112
7,5	5,5	132S	2915	18,6	8,7	1,81	3,0	4,0	87,9	89,0	88,8	0,77	0,85	0,89	1,15	0,01710	8	60,7	220/380/440	605128113
10	7,5	132S	2905	24,5	8,7	2,42	3,0	3,8	88,8	89,5	89,0	0,79	0,87	0,89	1,15	0,01765	8	64,2	220/380/440	605128114
12,5	9,2	132S	2900	31,8	8,7	3,03	3,2	4,0	89,4	89,8	89,1	0,76	0,85	0,89	1,15	0,01820	8	65,7	220/380/440	605128115
4 Poles																				
P o w e r		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor C o s			Service Factor SF	M o m e n t of inertia J (Kg m²)	T m r b (s)	Weight (Kg)	Voltage (V)	H M Code
C V	K W								% of rated power											
									50	75	100	50	75	100						
0,75	0,55	80	1410	2,4	5,2	0,37	2,2	2,7	75,0	77,0	78,0	0,62	0,75	0,80	1,15	0,00290	8	9,5	0,6	605129105
1	0,75	80	1440	4,1	5,5	0,49	2,8	3,8	69,0	72,0	74,0	0,46	0,55	0,64	1,15	0,00312	8	10,6	220/380	605129106
1,5	1,1	90	1450	5,4	6,1	0,73	3,0	4,0	79,0	82,0	82,4	0,49	0,57	0,66	1,15	0,00515	8	14,5	220/380	605129107
2	1,5	90	1450	6,3	6,0	0,97	2,9	3,7	80,0	84,0	85,8	0,55	0,62	0,71	1,15	0,00680	8	17,4	220/380	605129108
3	2,2	100	1440	9,1	6,0	1,50	2,3	3,2	83,1	84,8	84,5	0,55	0,68	0,76	1,15	0,00906	8	26,0	220/380	605129109
4	3,0	100	1430	11,6	5,8	2,00	2,3	3,0	84,9	85,0	85,0	0,63	0,74	0,80	1,15	0,00992	8	29,5	220/380	605129110
5,5	4,0	112	1440	14,9	5,6	2,66	2,0	2,7	86,4	86,4	86,4	0,68	0,79	0,84	1,15	0,01740	8	41,2	220/380	605129112

The values shown are subject to change without prior notice.

SINGLE-PHASE MOTOR IP21 50Hz

Image for illustrative purposes



Platinum:
Dual contact with
SHP



Top-of-the-line
bearings



Insulation Class F:
Withstands up to 155°C



It uses two capacitors
(Start and Permanent)



Service factor up to 1,35

NOTE: THE MECHANICAL DATA, CHARACTERISTICS AND OPTIONS ARE THE SAME AS THE 60HZ MOTORS (PAGE 17/18).

ELECTRICAL DATA

2 Poles																				
P o w e r		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor C o s			Service Factor SF	M o m e n t of inertia J (Kg m²)	T m r b (s)	Weight (Kg)	Voltage (V)	H M Code
C V	K W								% of rated power											
									50	75	100	50	75	100						
0,33	0,25	B48	2940	2,6	5,8	0,08	2,8	3,4	58	68	70	0,37	0,49	0,62	1,35	0,0008	6	8,2	110/220	605123101
0,50	0,37	C48	2935	3,5	6,0	0,12	2,7	3,4	60	70	72	0,42	0,53	0,66	1,25	0,0010	6	10,0	110/220	605123102
0,75	0,55	C56	2900	4,8	4,8	0,18	2,3	2,9	59	69	71	0,49	0,61	0,74	1,25	0,0014	6	11,0	110/220	605123103
1,00	0,75	HM56 B	2940	6,0	7,6	0,24	3,0	3,7	68	74	77	0,60	0,70	0,77	1,25	0,0018	6	14,7	110/220	605123105
1,50	1,10	HM56 C	2915	7,3	6,2	0,36	3,1	3,3	68	78	82	0,56	0,70	0,83	1,15	0,0023	6	16,4	110/220	605123106
2,00	1,50	HM56 D	2930	11,3	6,3	0,48	3,0	3,7	65	76	80	0,52	0,65	0,77	1,15	0,0028	6	20,0	110/220	605123107
3,00	2,20	HM56 D	2900	14,9	4,9	0,73	2,3	3,0	65	77	81	0,56	0,69	0,83	1,00	0,0030	6	21,8	110/220	605123108
4 Poles																				
P o w e r		Frame	R P M	Rated current at 220V (A)	Chain with locked rotor Ip/In	Nominal torque C n (Kgfm)	Torque with locked rotor Cp/Cn	Maximum torque C max/ C n	Yield n %			Power factor C o s			Service Factor SF	M o m e n t of inertia J (Kg m²)	T m r b (s)	Weight (Kg)	Voltage (V)	H M Code
C V	K W								% of rated power											
									50	75	100	50	75	100						
0,33	0,25	B48	1450	3,6	3,8	0,16	3,0	3,5	40	51	55	0,31	0,43	0,56	1,35	0,0017	6	6,0	110/220	605137103
0,50	0,37	C48	1445	4,3	4,4	0,25	2,7	2,5	45	55	60	0,38	0,50	0,62	1,25	0,0021	6	10,3	110/220	605137104
0,50	0,37	C56	1445	4,3	4,4	0,25	2,7	2,5	45	55	60	0,38	0,50	0,62	1,25	0,0021	6	10,8	110/220	605137105
0,75	0,55	HM56 B	1460	4,4	5,4	0,36	2,4	2,8	60	69	71	0,60	0,72	0,81	1,25	0,0045	6	13,2	110/220	605137106
1,00	0,75	HM56 B	1460	7,0	4,3	0,48	2,8	3,3	59	67	70	0,48	0,60	0,69	1,15	0,0057	6	15,1	110/220	605137107
1,50	1,10	HM56 C	1450	11,0	4,0	0,73	2,2	3,0	60	68	70	0,46	0,58	0,67	1,15	0,0081	6	19,0	110/220	605137108
2,00	1,50	HM56 D	1445	12,7	4,5	0,97	2,0	2,7	63	71	73	0,51	0,63	0,72	1,00	0,0098	6	22,2	110/220	605137109

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