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# SUBMERGED MOTOR 4" series 40L



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Submerged asynchronous two-pole rewindable motor made of AISI 304 stainless steel for parts in contact with water. Cooling and lubrication of ball bearings is assured by a special FDA approved coolant. Rotor mounted on two oversized ball bearings (three bearings for 4HP and higher). Stator housed in a stainless steel casing. Graphite/ceramic mechanical seal. Flanging to NEMA 4". Protection rating IP 68. Heat insulation class F. Removable connector. Vertical/horizontal operation. Maximum working depth: 250 m. Motor suitable for use with variable frequency drive (30Hz-50Hz). Capacitor and manually resettable overload protection located in electrical panel that can be supplied separately for the single-phase version. Overload protection to be provided by the user for the three-phase version.

## Motor construction characteristics

**STATOR.** The rewindable stator is enclosed in an AISI 304L stainless steel jacket. Insulation class F. Compatible with up to 20 starts per hour.

**POWER CABLE.** All motors are supplied as standard with a removable 4-core cable to allow easy and rapid disassembly/assembly of the motor or part of the pump without any risk of damaging the cable.

**SUPPORTS.** Upper and lower supports are made of G20 cast iron with protective coating, equipped with carbon-graphite bushes. Support covers in AISI 304 stainless steel.

### THRUST BEARINGS SYSTEM

Oversized high axial load ball bearings.

Thrust bearing systems vary in compliance with the various different installed power values:

from 0.5 hp to 2 hp:	class 2000 N
from 3 hp:	class 3000 N
from 4 hp to 5.5 hp:	class 4000 N
from 7.5 hp to 10 hp:	class 5000 N

**ROTOR SHAFT** Rotor shaft extension in stainless steel. The rotor is made of die cast aluminium up to 3 hp and in copper for all motors from 4 hp up to 10 hp.

**CAPACITOR** Electrical control box for operation of single-phase motors, containing manually resettable overload protection, capacitor, and terminals for electrical connections and connection of pressure switches/float switches if required.

Complete with 1.5 m cable with SCHUKO plug CEE 7- UNEL 47166-168. Wall-mounting box in self-extinguishing thermoplastic.

MODEL		Power input 50 Hz V	In A	Ist A	P1 Max W	Rpm N	cosφ	Eff. ?	Capac. μF	Axial thrust N	Length mm	Weight Kg	CABLE	
Hp	KW												Cross section mm²	Length m
0,5	0,37	1 ~ 230 V	3,5	9	725	2800	0,90	51	16	2000	325	6,5	4 x 1,5	1,7
0,75	0,55	1 ~ 230 V	4,5	12	950	2800	0,92	58	20	2000	345	7,5	4 x 1,5	1,7
1	0,75	1 ~ 230 V	6,3	20	1275	2820	0,88	59	25	2000	375	8,7	4 x 1,5	1,7
1,5	1,1	1 ~ 230 V	8,5	25	1780	2800	0,91	62	35	2000	395	9,6	4 x 1,5	1,7
2	1,5	1 ~ 230 V	10,8	35	2160	2800	0,87	69	40	2000	440	11,5	4 x 1,5	1,7
3	2,2	1 ~ 230 V	14	45	3060	2800	0,87	78	60	3000	558	15,8	4 x 1,5	1,7
0,5	0,37	3 ~ 230 V	2,8	9	700	2820	0,63	53		2000	325	6,5	4 x 1,5	1,7
		3 ~ 400 V	1,6	5,2										
0,75	0,55	3 ~ 230 V	3,8	13	980	2820	0,64	56	-	2000	325	6,5	4 x 1,5	1,7
		3 ~ 400 V	2,2	7,5										
1	0,75	3 ~ 230 V	4,5	17,3	1200	2820	0,68	62	-	2000	345	7,5	4 x 1,5	1,7
		3 ~ 400 V	2,6	10										
1,5	1,1	3 ~ 230 V	6,2	28	1700	2830	0,68	65	-	2000	375	8,7	4 x 1,5	1,7
		3 ~ 400 V	3,6	16										
2	1,5	3 ~ 230 V	7,9	35	2160	2810	0,68	69	-	2000	395	9,6	4 x 1,5	1,7
		3 ~ 400 V	4,6	20										
3	2,2	3 ~ 230 V	10,9	57	3050	2810	0,70	72	-	3000	498	11,5	4 x 1,5	1,7
		3 ~ 400 V	6,3	33										
4	3	3 ~ 230 V	13,6	78	4000	2840	0,73	75	-	4000	558	17,6	4 x 1,5	2,7
		3 ~ 400 V	7,9	45									4 x 1,5	
5,5	4	3 ~ 230 V	17,6	95	5260	2850	0,74	76	-	4000	628	23	4 x 2	2,7
		3 ~ 400 V	10,2	55									4 x 1,5	
7,5	5,5	3 ~ 230 V	22,6	121	6900	2850	0,76	80	-	5000	698	26,6	4 x 2	2,7
		3 ~ 400 V	13,1	70									4 x 1,5	
10	7,5	3 ~ 400 V	16,9	84	9030	2840	0,77	81	-	5000	778	30,6	4 x 2	3,5

COMPONENT	MATERIAL	TYPE
Internal sleeve and outer casing	Stainless steel	AISI 304 L
Upper support	Nickel-plated cast iron	
Shaft extension	Stainless steel	AISI 304/Duplex
Support cover	Stainless steel	AISI 304
Mechanical seal	Carbon-Ceramic	
Gaskets	Rubber	NBR
Cap	Stainless steel	AISI 304
Bellow seal	Rubber	EPDM
Pins	Stainless steel	AISI 304
Cable	Rubber	EPDM
Connector plug	Stainless steel	AISI 316
Sand guard (fixed-mobile)	Rubber	NBR
Screws	Stainless steel	AISI 304
Coolant	Mineral oil	

