
SUBMERGED MOTOR 4" series 40L



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	

