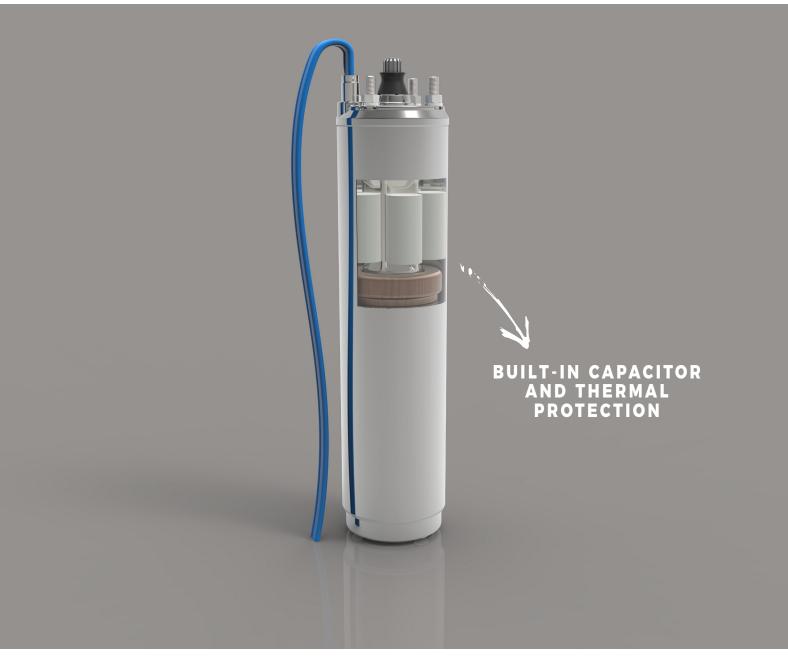


4WM2W

50 Hz - 60 Hz



4" SINGLE-PHASE 2-WIRE WATER COOLED SUBMERSIBLE MOTORS, CANNED TYPE









TECHNICAL SPECIFICATIONS

MOTORS WITH AIRTIGHT SEALED AND RESIN ENCAPSULATED STATOR

MOTOR/PUMP FLANGE 4" NEMA STANDARD

POWERS

Single-phase: from 0,5 to 1,5 Hp

VOLTAGE

Single-phase: 2-wire PSC type 230 V / 50 Hz 2-wire PSC type 115;230 V / 60 Hz

THRUST LOAD

50 Hz from 0,5 to 1 Hp: 2000 N

1,5 Hp: 3000 N

60 Hz from 0,5 to 0,75 Hp: 2000 N

from 1 to 1,5 Hp: 3000 N

CONSTRUCTION FEATURES

BUILT-IN CAPACITOR AND THERMAL PROTECTION, which allow an immediate use of the motor without needing to install an electrical control panel of protection.

PARTS IN CONTACT WITH WATER all made in AISI 304 stainless steel which ensures resistance to corrosion even in the most extreme conditions of use. External sleeve made in AISI 304L (Low Carbon) for a greater resistance to corrosion.

STATOR with 24 slots, specifically developed to achieve maximum electrical performance. Airtight sealed and resin encapsulated. A solution which ensures excellent heat exchange and extremely high mechanical resistance with high pressure, something typical of very deep immersions.

REMOVABLE POWER CABLE-CONNECTOR to ensure a perfect sealing, also in the most critical conditions, and to aid maintenance operations. The power cable complies with all major standards on the use in drinking water (KTW, ACS, WRAS).

FILLING LIQUID is a mixture of water and propylene glycol to ensure adequate lubrication of the thrust bearing system and to lower the freezing point when stored in very cold places.

RESTORE LIQUID VALVE which allows water in to restore internal level.

SHAFT made in carbon-steel alloys in the rotor area, to foster electrical features. AISI 304 stainless steel projection.



THRUST BEARING SYSTEM Kingsbury-type with stainless steel thrust bearing runners oscillating on a self-aligning system.

A specific runner lapping process makes this system extremely reliable and efficient.

100% TESTED, all motors are tested at the end of the line. Seal and electrical checks are carried out on all motors.

VERSIONS UPON REQUEST

Different voltage

OPERATING LIMITS

DEGREE OF PROTECTION

INSULATION CLASS

VOLTAGE TOLERANCE

-10% / +10%

PUMPED LIQUID TEMPERATURE 0°C - 35°C

MIN. COOLING FLOW 0.1 m/s

MAX. STARTS / HOUR

MOUNTING

Vertical and/or horizontal

MAX. IMMERSION DEPTH

300 m

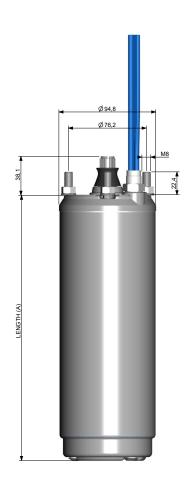
SINGLE-PHASE VERSION

2-wire PSC type from 0,5 to 1,5 Hp

ACCESSORIES

Cable lengths: 20 m or 30 m

DIMENSIONS





ELECTRICAL DATA 4WM2W - 50Hz

Туре	P ₂ [Hp]	P ₂ [kW]	Voltage [V]	Ph	I <u>,</u> [A]	I _{avv} [A]	rpm	cos φ	η [%]	Capacitor [µF]	Thrust Load [N]	Length A [mm]	Weight [kg]	Cable Length [m]	Cable Section [mm²]
Single-phase 2-wire PSC															
4WM2W-S050	0,5	0,37	230	1	3,2	13,4	2855	0,95	55	27	2000	328	8,5	1,5	3 x 1,5
4WM2W-S075	0,75	0,55	230	1	4,2	17,4	2850	0,96	60	27	2000	348	9,5	1,5	3 x 1,5
4WM2W-S100	1	0,75	230	1	5,8	23,3	2850	0,93	59	36	2000	368	10,3	1,5	3 x 1,5
4WM2W-S150	1,5	1,1	230	1	7,8	32,7	2845	0,97	67	36	3000	413	12,2	1,5	3 x 1,5

■ ELECTRICAL DATA 4WM2W - 60Hz

Туре	P ₂ [Hp]	P ₂ [kW]	Voltage [V]	S.F.	Ph	FULL LOAD AMPS In [A]	FULL S.F. AMPS I _{MAX} [A]	rpm	cos φ	η [%]	Capacitor [μF]	Thrust Load [N]	Length A [mm]	Weight [kg]	Cable Length [m]	Cable Section [mm²]
Single-phase 2-wire PSC																
4WM2W-S050	0,5	0,37	115	1,6	1	8,4	10,5	3450	0,99	52	36	2000	348	9,5	1,5	3 x 1,5
4WM2W-S050	0,5	0,37	230	1,6	1	4	4,8	3450	0,99	54	27	2000	348	9,5	1,5	3 x 1,5
4WM2W-S075	0,75	0,55	115	1,5	1	9,8	10,4	3450	0,96	61	36	2000	368	10,3	1,5	3 x 1,5
4WM2W-S075	0,75	0,55	230	1,5	1	4,8	6	3450	0,96	61	27	2000	368	10,3	1,5	3 x 1,5
4WM2W-S100	1	0,75	230	1,4	1	6,2	7,6	3450	0,98	61	36	3000	388	11,9	1,5	3 x 1,5
4WM2W-S150	1.5	1,1	230	1,3	1	8,1	9,6	3450	0,98	62	36	3000	413	12,2	1,5	3 x 1,5



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