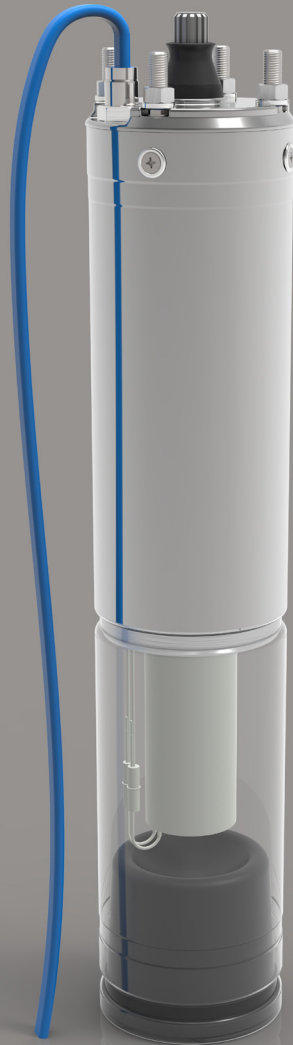


# 40M2W

50 Hz - 60 Hz



BUILT-IN CAPACITOR  
AND THERMAL  
PROTECTION

**4" SINGLE-PHASE 2-WIRE OIL FILLED  
SUBMERSIBLE MOTORS**



Made in Italy



## TECHNICAL SPECIFICATIONS

### REWINDABLE MOTORS

**MOTOR/PUMP FLANGE**  
4" NEMA STANDARD

### POWERS

Single-phase 50 Hz: from 0,75 to 1,5 Hp  
Single-phase 60 Hz: from 0,5 to 1,5 Hp

### VOLTAGE

Single-phase: 230 V / 50 Hz - 220 V / 60 Hz

### THRUST LOAD

2000 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.

**EXTERNAL SLEEVE AND BOTTOM** made in AISI 304 stainless steel. More specifically, sleeve is made of AISI 304L (Low carbon) to avoid possible corrosions of the welding.

**UPPER BRACKET** made in cast iron with cathoresis treatment and protected with an AISI 304 stainless steel cover. Sleeve clamping is ensured by 4 inserts.

**MECHANICAL SEAL** made in graphite/ceramic in the standard version; SIC-SIC version available upon request.

**BALL BEARING** duly oversized to ensure a long lasting motor.

**STATOR** with 24 slots, specifically developed to achieve maximum electrical yield. Airtight sealed and immersed in selected mineral white and highly refined oil, suitable to be used in drinking water (F.D.A., *Food and Drug Administration*, approved).

**REMOVABLE POWER CABLE-CONNECTOR** to ensure a perfect sealing, also in the most critical conditions, and to aid maintenance operations. More specifically, the connector prevents oil from rising in the conductors up to the joint, thus enabling immersion at greater depths. The power cable complies with all major standards on the use in drinking water (KTW, ACS, WRAS).

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

**SAND PROTECTION FILTER** in addition to the standard sand protection system. It's a special filter that stops any impurities that may get in contact with the external face of mechanical seal. This ensures a longer mechanical seal lifetime.

**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  
Sic-Sic mechanical seal

## OPERATING LIMITS

**DEGREE OF PROTECTION**  
IP 68

**INSULATION CLASS**  
F

**VOLTAGE TOLERANCE**  
-10% / +10%

**PUMPED LIQUID TEMPERATURE**  
0°C – 35°C

**MIN. COOLING FLOW**  
0,1 m/s

**MAX. STARTS / HOUR**  
30

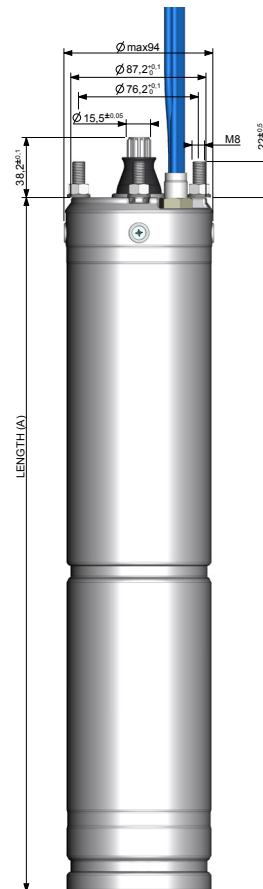
**MOUNTING**  
Vertical and/or horizontal

**MAX. IMMERSION DEPTH**  
200 m

## ACCESSORIES

Cable lengths: 20 m or 30 m  
Sacrificial anode  
Control panels *E.S.P.*

## DIMENSIONS



## ELECTRICAL DATA 4OM2W - 50Hz

Type	P <sub>2</sub> [Hp]	P <sub>2</sub> [kW]	Voltage [V]	Ph	I <sub>n</sub> [A]	I <sub>avv</sub> [A]	rpm	cos φ	η [%]	Capacitor [μF]	Thrust Load [N]	Length A [mm]	Weight [kg]	Cable Length [m]	Cable Section [mm <sup>2</sup> ]
4OM2W-S075	0,75	0,55	230	1	4,7	16,5	2810	0,88	57	25	2000	417	7,90	1,5	3 x 1,5
4OM2W-S100	1	0,75	230	1	5,9	18,9	2825	0,9	62	35	2000	442	9,10	1,5	3 x 1,5
4OM2W-S150	1,5	1,1	230	1	8,3	26,2	2840	0,91	64	40	2000	482	10,70	1,5	3 x 1,5

## ELECTRICAL DATA 4OM2W - 60Hz

Type	P <sub>2</sub> [Hp]	P <sub>2</sub> [kW]	Voltage [V]	Ph	I <sub>n</sub> [A]	I <sub>max</sub> [A]	I <sub>avv</sub> [A]	rpm	cos φ	η [%]	Capacitor [μF]	S.F.	Thrust Load [N]	Length A [mm]	Weight [kg]	Cable Length [m]	Cable Section [mm <sup>2</sup> ]
4OM2W-S050	0,5	0,37	220	1	3,4	4,2	16	3450	0,92	54	20	1,6	2000	417	7,90	1,5	3 x 1,5
			110		6,8	9,9	29	3470	0,89	48	80						
4OM2W-S075	0,75	0,55	220	1	4,7	6,8	20,2	3420	0,95	57	25	1,5	2000	417	7,90	1,5	3 x 1,5
			110		9,9	13,1	39	3435	0,84	53	80						
4OM2W-S100	1	0,75	220	1	6,3	8,1	22,6	3435	0,95	58	35	1,4	2000	442	9,10	1,5	3 x 1,5
4OM2W-S150	1,5	1,1	220	1	8,3	10,8	32	3455	0,98	64	40	1,3	2000	482	10,70	1,5	3 x 1,5



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EDIT: BROCHURE 4OM2W EN/MAY/2020