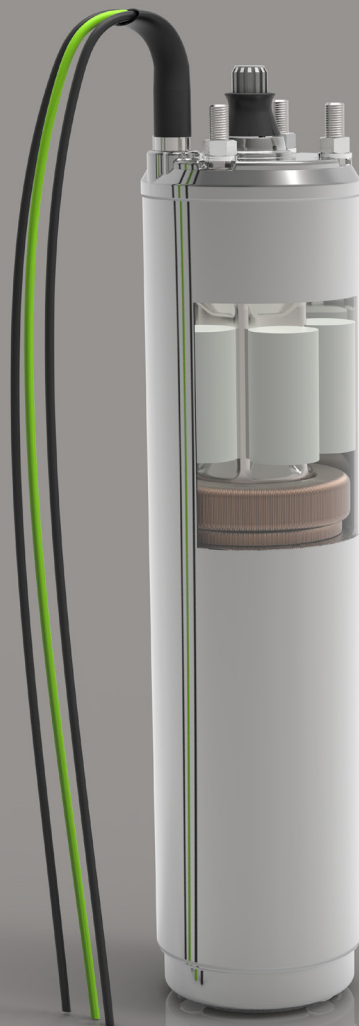


# 4W MU2W

60 Hz



**BUILT-IN CAPACITOR  
AND THERMAL  
PROTECTION**

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



**Made in Italy**



## TECHNICAL SPECIFICATIONS

**MOTORS WITH AIRTIGHT SEALED AND RESIN ENCAPSULATED STATOR**

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

**POWERS**  
Single-phase: from 1/2 to 1.5 Hp

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

**THRUST LOAD**  
From 1/2 to 3/4 Hp: 2000 N - 450 lbf  
From 1 to 1.5 Hp: 3000 N - 700 lbf

## 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 even 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.

**FILLING LIQUID** composed of a mixture of water and propylene glycol (special antifreeze liquid) to ensure adequate lubrication of the thrust bearing system together with the ability 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** King-sbury-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**  
IP 68

**INSULATION CLASS**  
F

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

**PUMPED LIQUID TEMPERATURE**  
0°C - 35°C / 32°F - 95°F

**MIN. COOLING FLOW**  
0,1 m/s - 0.33 ft/sec

**MAX. STARTS / HOUR**  
30

**MOUNTING**  
Vertical and/or horizontal

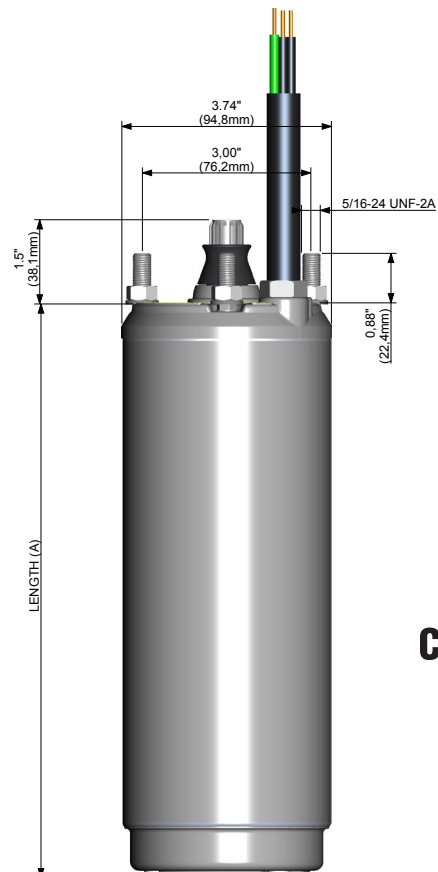
**MAX. IMMERSION DEPTH**  
300 m - 984.25 ft

**SINGLE-PHASE VERSION**  
2-wire PSC type from 1/2 to 1.5 Hp

## ACCESSORIES

Different cable lengths  
Lightning arrestor

## DIMENSIONS



## ELECTRICAL DATA 4WMU2W - 60Hz

Type	P <sub>2</sub> [Hp]	P <sub>2</sub> [kW]	Voltage [V]	S.F.	Ph	FULL LOAD AMPS	FULL S.F. AMPS	rpm	η [%]	Capacitor [μF]	Thrust Load		Length A		Weight		Cable Length		Cable Section [AWG]	
						I <sub>n</sub> [A]	I <sub>MAX</sub> [A]				[lbf]	[N]	[mm]	[in]	[kg]	[lb]	[m]	[ft]		
<b>Single-phase 2-wire PSC</b>																				
4WMU2W-S050	1/2	0.37	115	1.6	1	8.4	10.5	3450	52	36	450	2000	348	13,7	9,4	20,7	1,7	5 1/2	3 x 14	
4WMU2W-S050	1/2	0.37	230	1.6	1	4	4.8	3450	54	27	450	2000	348	13,7	9,4	20,7	1,7	5 1/2	3 x 14	
4WMU2W-S075	3/4	0.55	115	1.5	1	9.8	10.4	3450	61	36	450	2000	368	14,5	10,3	22,7	1,7	5 1/2	3 x 14	
4WMU2W-S075	3/4	0.55	230	1.5	1	4.8	6	3450	61	27	450	2000	368	14,5	10,3	22,7	1,7	5 1/2	3 x 14	
4WMU2W-S100	1	0.75	230	1.4	1	6.2	7.6	3450	61	36	700	3000	388	15,3	11,9	26,2	1,7	5 1/2	3 x 14	
4WMU2W-S150	1.5	1.1	230	1.3	1	8.1	9.6	3450	62	36	700	3000	413	16,3	12,2	26,9	1,7	5 1/2	3 x 14	



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EDIT: BROCHURE 4WMU2W EN/SET/2024