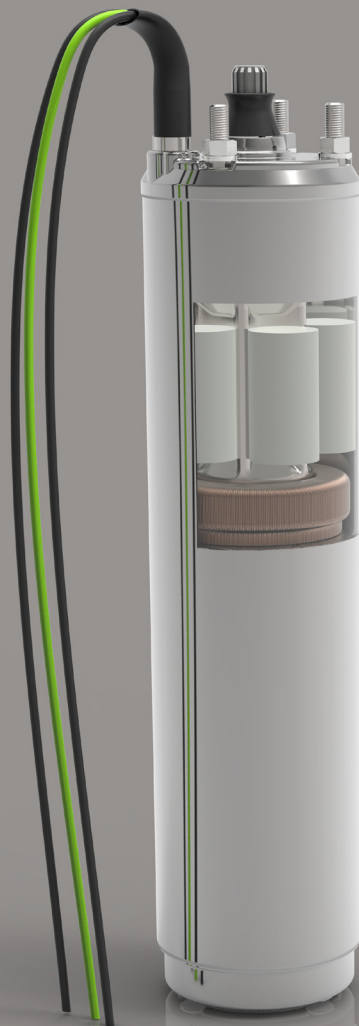


4W MU2W

60 Hz

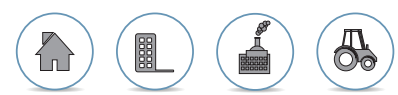


**BUILT-IN CAPACITOR
AND THERMAL
PROTECTION**

**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

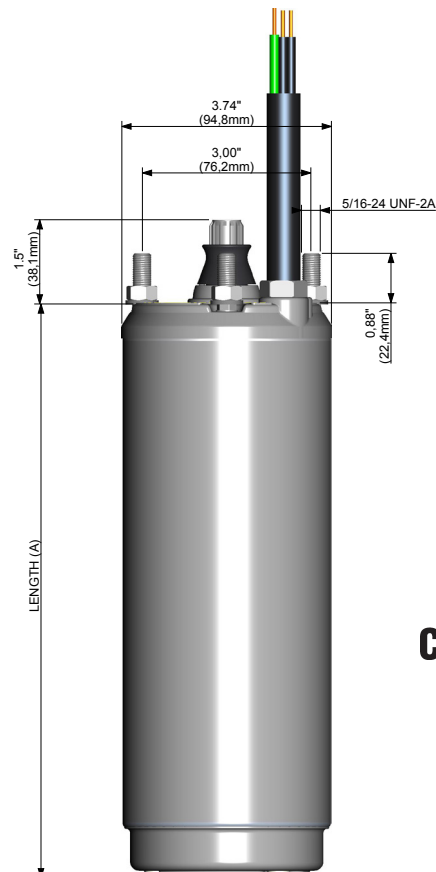
MAX. IMMERSION DEPTH
300 m - 984.25 ft

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

ACCESSORIES

Different cable lengths
Lightning arrester

DIMENSIONS



ELECTRICAL DATA 4WMU2W - 60Hz

Type	P ₂ [Hp]	P ₂ [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 _n [A]	I _{MAX} [A]				[lbf]	[N]	[mm]	[in]	[kg]	[lb]	[m]	[ft]		
Single-phase 2-wire PSC																				
4WMU2W-S050	1/2	0.37	115	1.6	1	8.4	10.5	3450	52	36	450	2000	357	14.1	10.7	23.6	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	357	14.1	10.7	23.6	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	377	14.8	11.3	24.9	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	377	14.8	11.3	24.9	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	397	15.6	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	422	16.6	12.7	28.0	1.7	5 1/2	3 x 14	



PM S.r.l.

Via A. Volta, 8
36040 Brendola (VI) - Italy
T. +39 0444 673043
F. +39 0444 677273
info@pmtechnology.eu
www.pmtechnology.eu



ISO 9001:2015 Certified Company

© COPYRIGHT PM S.r.l.

All rights reserved.
All information shown in this catalogue are purely indicative;
PM S.r.l. reserves the right to make any necessary variation without prior
notice.

EDIT: BROCHURE 4WMU2W EN/MAR/2023