

HYDROP
DRIVING WATER. BUILDING TRUST.

4" SUBMERSIBLE MOTOR 2WIRES 4HDW2W



4" SUBMERSIBLE MOTOR 4HDW2W

The 4HDW 2W extends the deep-well capabilities of the standard water-filled version by integrating start and thermal protection, offering simplified wiring, reliable operation up to 300 meters and consistent durability in abrasive well environment.



304L LOW CARBON CORROSION SHIELD

300M DEEP-WELL RATED

INTEGRATED START & THERMAL PROTECTION

DUAL SAND PROTECTION SYSTEM

Motor/Pump Flange	4" Nema standard	
Voltage Tolerance:	- 10% / + 10%	
Max. Starts / Hour:	30	
Degree of Protection:	IP68	
Insulation Class:	F	
Pumped Liquid Temperature:	32°F - 95°F 0°C - 35°C	
Min. Cooling Flow:	0,328 ft/s 0,1 m/s	
Mounting:	Vertical and/or Horizontal	
Max. Immersion Depth:	300 m	
Thrust Load (50Hz):	From 0.5 to 1 Hp	2000N
	From 1.5	3000N
Thrust Load (60Hz):	From 0.5 to 0.75 Hp	2000N
	From 1 to 1.5 Hp	3000N
Stator:	24 slots	
Cable, voltage, thrust loads [...] special versions available		

Cable lengths with connector ACS, WRAS, KTW approved	Length [m]	Section [mm ²]
	1.5	1.5
	20	1.5
	30	1.5

4" SUBMERSIBLE MOTOR 4HDW2W



ELECTRIC DATA 50HZ

SINGLE PHASE

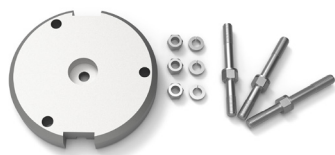
TYPE	P ₂ [HP]	P ₂ [KW]	VOLTAGE [V]	Ph	I _N [A]	I _{AVV} [A]	RPM	COSΦ	H [%]	CAPACITOR [μF]	THRUST LOAD [N]	LENGTH A [MM]	WEIGHT [KG]	CABLE SECTION [MM²]	CABLE LENGTH [M]
4HDW2W-S050	0,5	0,37	230	1	3,2	13,4	2855	0,95	55	27	2000	328	8,5	1,5	3 x 1,5
4HDW2W-S075	0,75	0,55	230	1	4,2	17,4	2850	0,96	60	27	2000	348	9,5	1,5	3 x 1,5
4HDW2W-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
4HDW2W-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

ELECTRIC DATA 60HZ

SINGLE PHASE

TYPE	P ₂ [HP]	P ₂ [KW]	VOLTAGE [V]	S.F.	Ph	FULL LOAD AMPS I _N [A]	FULL S.F. AMPS I _{MAX} [A]	RPM	H [%]	CAPACITOR [μF]	THRUST LOAD		LENGTH A		WEIGHT		CABLE LENGTH		CABLE SECTION [AWG]
											[lbf]	[N]	[mm]	[in]	[kg]	[lb]	[m]	[ft]	
4HDW2W-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
4HDW2W-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
4HDW2W-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
4HDW2W-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
4HDW2W-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
4HDW2W-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

ACCESSORIES



SACRIFICIAL ANODE 4" MOTORS

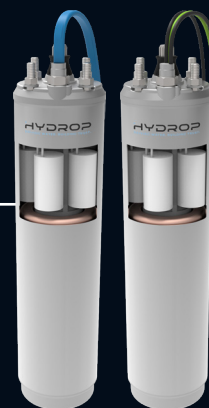
Our Zinc-Aluminum anode is an accessory very helpful when there are high aggressive agents, such as salted water or stray currents. It is thought to be installed at the inferior base of the motor thanks to an easy and fast system.

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KEY TECHNICAL ADVANTAGES

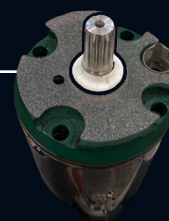
1st advantage

The external sleeve is manufactured in AISI 304L (Low Carbon, <0.03%), for superior corrosion protection, vs. standard SS 304 mostly used by competitors.



2nd advantage

Duplex stainless steel shaft projection to offer mechanical strength for high starting torque and axial loads, vs. standard SS 304 shafts mostly used by competitors.



3rd advantage

Removable power cable (KTW/ACS/WRAS approved) with ground wire pre-welded in the cable gland: faster installation + higher safety – vs. external/separate ground wire used by most competitors.



4th advantage

Dual sand protection (standard rubber guard + secondary filter): blocks water impurities for longer motor life in sandy wells vs. no additional protection in most competitor motors.



5th advantage

Upper and lower supports: Teflon-treated cast iron + AISI 304 cover coated; the best protection against corrosion and oxidation available on the market.



HYDROP

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