

HYA6

6" Rewindable water Cooled submersible Motors



hydroo®

6" REWINDABLE WATER COOLED SUBMERSIBLE MOTORS

Motors designed to work in 6" or wider wells. The use of very high quality Made in Italy materials and our strict tests together with consolidated know how ensure high mechanical resistance and high performing electric features. Designed to be easily repairable.

Product features

Stator:

Specifically developed to achieve maximum electrical yield. Covered by an AISI 304 stainless steel sleeve. Windings are asynchronous-type and are made of copper wire with PVC insulation, or copper wire with PE2+PA insulation, which is "inverter resistant" and suggested for high temperatures and voltage surges.

Power cable:

It ensures perfect sealing in the most critical conditions. Cable is EPR-type and complies with all major standards on the use in drinking water (KTW, ACS, WRAS).

Filling Liquid:

Mixture of water and propylene glycol to ensure adequate lubrication of the thrust bearing system together with the ability to lower the freezing point when stored in very cold places.

Upper And Lower Support:

GS400 spheroidal cast iron with cataphoresis treatment, which gives great resistance to water impacts and corrosion.

Mechanical Seal:

SIC-SIC, silicon-silicon carbide.

Shaft:

Completely in AISI 420 stainless steel, without welding. It is ground along the entire axis thus giving the rotor such a concentricity to ensure perfect linearity. A shaft free from vibration is obtained thanks to balancing. Led by wear-resistant graphite bushing bearings.

Thrust Bearing System:

Bidirectional Michell-type, with pads in treated steel and supported by a disk in resin compound fibres and self lubricating additives, totally ecological.

100% Tested:

All motors are tested at the end of the line.



ELECTRICAL DATA - 50HZ

Type	P [Hp]	P [kW]	I _n [A]		Starting		φ cos	η [%]	rpm	Thrust load [N]	Length [mm]	Weight [kg]	Cable section [mm ²]				Cable Length [m]	T _{max}	
					Direct	Δ / Y							Direct		Δ / Y			H ₂ O	PE2 + I PA
													230V	400V	230/400V	400/690V			
HYA6-400	5,5	4	16	9,5	5,2	1,3	0,83	79,5	2880	18000	640	41	4 x 3	4 x 3	4 x 6	4 x 6	3,5	30°C 86°F	55°C 131°F
HYA6-550	7,5	5,5	21,5	12,5	4,9	1,6	0,87	78	2850		670	44							
HYA6-750	10	7,5	29,5	17	5,35	1,7	0,86	78,5	2850		700	46							
HYA6-920	12,5	9,2	36	21,5	5,05	1,7	0,86	78	2830		740	50							
HYA6-1100	15	11	42,5	24,5	5	1,6	0,87	79	2840		770	54							
HYA6-1300	17,5	13	51	29	5	1,6	0,86	80	2840		840	61							
HYA6-1500	20	15	60	34	5,05	1,6	0,86	81	2830		840	62							
HYA6-1850	25	18,5	69,5	40	4,85	1,6	0,86	82	2845		900	68							
HYA6-2200	30	22	83	48	4,6	1,5	0,86	83	2845		970	75							
HYA6-2600	35	26	95	55	4,9	1,6	0,87	82,5	2830		1040	82							
HYA6-3000	40	30	113,5	65,5	5,15	1,7	0,85	83	2840	1100	89								
HYA6-3700	50	37	138,5	80	4,75	1,5	0,85	83	2840	1240	103								
HYA6-4500	60	45	167	96,5	5,05	1,6	0,85	83	2840	1370	116								

TECHNICAL SPECIFICATIONS

Motor/Pump Flange	6" Nema Standard
Degree of protection	IP 68
Insulation Class	PVC: Y PE2 + PA: B
Voltage tolerance	- 10% / + 6%
Pumped liquid temperature	Refer to electrical data sheet
Min. Cooling Flow	0,15 m/s 0,492 ft/s
Max. Starts / Hour	10
Mounting	Vertical And/Or Horizontal
Max. Immersion Depth	350M
Thrust Load	
From 5,5 to 20 HP	18.000N
From 25 to 60 HP	25.000N

Rewindable motor

Special cables/Voltage/Thrust Loads,
Y/Δ Starting, Pt100 Temperature sensor [...]
Available Upon Request.

