

ShinMaywa Submersible Sewage Pump CNWX(Explosion Proof)

Motor Data

1. The data listed below are the design values.

【208V】

		2HP (1.5kW)	3HP (2.2kW)	5HP (3.7kW)	7.5HP (5.5kW)	10HP (7.5kW)
Pole		4				
Full Load Current (A)		7.4	10.0	16.3	24.4	31.2
Efficiency (%)	1/2 Load	59.5	63.2	66.3	66.9	70.4
	3/4 Load	66.0	68.5	71.1	72.0	74.9
	1/1 Load	67.0	69.7	72.2	73.3	75.9
Power Factor (%)	1/2 Load	76.9	79.3	78.2	85.4	83.5
	3/4 Load	82.6	85.5	84.5	88.0	87.1
	1/1 Load	85.0	88.1	87.3	88.3	87.9
Start Current (A)		26.5	51.4	96.6	121.7	175.3
Locked-Rotor-Torque (%)		268.7	246.2	297.1	200.9	221.1
Power Cable Size		AWG16	AWG14	AWG12	AWG8	AWG8
Power Cable Length		50ft (15m)				

【230V】

		2HP (1.5kW)	3HP (2.2kW)	5HP (3.7kW)	7.5HP (5.5kW)	10HP (7.5kW)
Pole		4				
Full Load Current (A)		7.0	9.6	15.7	22.0	30.0
Efficiency (%)	1/2 Load	58.9	59.7	64.6	66.8	70.5
	3/4 Load	65.1	66.1	70.5	72.3	75.5
	1/1 Load	67.5	69.0	72.8	74.7	77.3
Power Factor (%)	1/2 Load	71.3	71.6	69.3	81.0	79.0
	3/4 Load	78.6	79.9	78.2	86.0	84.4
	1/1 Load	82.5	84.4	83.0	87.9	86.6
Start Current (A)		30.1	58.0	108.6	137.5	197.6
Locked-Rotor-Torque (%)		337.8	313.0	372.2	255.7	283.0
Power Cable Size		AWG16	AWG14	AWG12	AWG8	AWG8
Power Cable Length		50ft (15m)				

DWG.	Hayashi	Apr. 25. 2017	Mark	History	DWG. No. Y404926
JUDG	Takeuchi	Apr. 25. 2017			
APRD.	Tarui	Apr. 25. 2017			

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Motor Data

【460V】

		2HP (1.5kW)	3HP (2.2kW)	5HP (3.7kW)	7.5HP (5.5kW)	10HP (7.5kW)
Pole		4				
Full Load Current (A)		3.5	4.8	7.8	11.0	15.0
Efficiency (%)	1/2 Load	58.9	59.7	64.6	66.8	70.5
	3/4 Load	65.1	66.1	70.5	72.3	75.5
	1/1 Load	67.5	69.0	72.8	74.7	77.3
Power Factor (%)	1/2 Load	71.3	71.6	69.3	81.0	79.0
	3/4 Load	78.6	79.9	78.2	86.0	84.4
	1/1 Load	82.5	84.4	83.0	87.9	86.6
Start Current (A)		16.9	29.0	53.6	71.9	97.2
Locked-Rotor-Torque (%)		346.4	305.0	372.2	262.2	299.6
Power Cable Size		AWG16	AWG16	AWG16	AWG14	AWG12
Power Cable Length		50ft (15m)				

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Protector

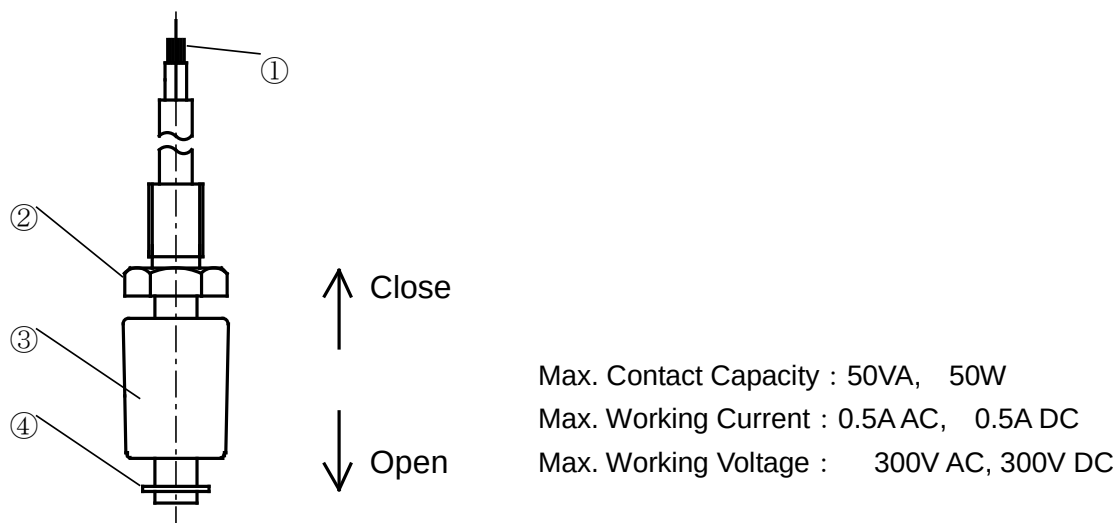
【Thermal Protector】

The motor shall incorporate Miniature Thermal Protectors (MTP) as a standard, which are embedded in the winding.

Output	Protector Model	Type of Contact	Acting Temperature
2HP, 3HP, 5HP, 7.5HP, 10HP	KLIXON 17AM037E5-4	b (Normally Closed)	302° F (150°C)

【Leakage Detector】

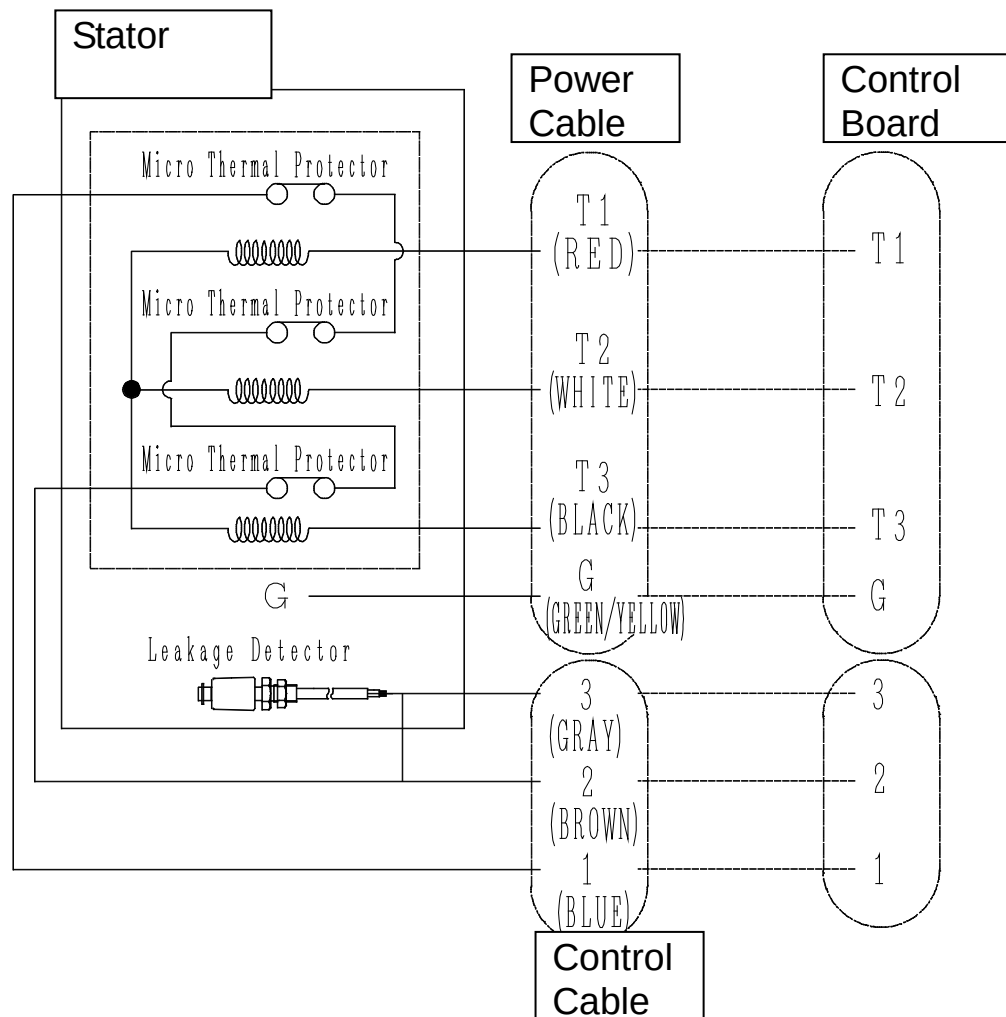
Float type leakage detector provided for mechanical seal failure protection.



No.	PART NAME	MATERIALS
1	LEAD WIRE	0.5mm ² FEP tubing
2	HOUSING	Brass (C3604BD,Nickel plating)
3	FLOAT	Foamed NBR + Phenolic Magnet : Ferrite
4	STOPPER	AISI 316 Stainless Steel

PROTECTOR MODEL	TYPE OF CONTACT
NOHKEN OLV-2B-T	a (Normally Open)

Wiring Diagram



※Type of contact

1. Thermal Protector: b (Normally Closed)
2. Leakage Detector: a (Normally Open)