Sheathed Heaters for Liquid Heating

with Plug / with Overheating Prevention

Sheathed Heaters for Liquid Heating – with Plug		MSHPW MSHPWP MSHPWP MSHPWP MSHPWP MSHPWP MSHPWP MSHPWP MSHPWP MSHPWP MSHPWP MSHPWP Mstring, Plug Type (PF Thread), 200V / Three-Phase Oil Heating, Plug Type (Plug Type (PF Thread), 200V / Three-Phase Oil Heating, Plug Type (Plug Ty								
Part Number		W V Electrical Power Density				Plug Available Types				
Туре	No.	Electric Power	Voltage	W/cm ²	L	Thread Size	MSHPW	MSHPWP	MSHFW	MSHPL
MSHPW MSHPWP MSHFW Only *marked sizes The values in () are for MSHFW10.	1	1000	200	3.5	170	MSHPW G(PF)2 MSHPWP R(PT)2	•	_	_	
	2	2000		6.0	200		•	_	_	
	*3	3000		7.0	230		•	•	•	
	4	4000			300		•	_	_	
	*5	5000			370		•	•	•	
	6	6000			430		•	_	_	
	8	8000		8.0	500		•	_	_	
	*10	10000		8.5 (7.0)	570 (700)		•	•	•	
MSHPL	1	1000	200	2.5	230	G(PF)2			_	•
	2	2000			400					•
	3	3000			580			_		•
	4	4000			760	1				•
	5	5000			890					•
O Be sure to refer to "cautions for use" stated in sheathed heaters for liquid heating guide on P.3741.										
Sheathed Heaters for Liquid Heating – with Overheating Prevention	MSPND Water Heating, Plug Type, 200V / Three-Phase									







Connecting Diagram (\triangle)

This heater has both protection pipe and bimetal thermostat. It prevents overheating of a heated object.







- Precautions for Use
- O Ensure a thermostat is fixed in the protection pipe before using. When it exceeds rating, use an assistant relay.

(2) Bimetal Thermostat

O This product is designed to prevent overheating of liquids. The thermostat does not function under dry-running condition after the liquid is gone, and it may invite unexpected trouble. Use with a monitoring system including a float switch to monitor the liquid level for boil-dry protection. D Bimetal thermostat of water temperature plus 20°C or above is recommended.

Connecting Parts for Heater / Float Switches Welding Sockets / Horizontal / Vertical

Connecting Parts for Heater – Welding Sockets, PF Threaded Welding Sockets MSHTS PF Thread G(PF) 2 Screv RoHS10







Features

should exit vertically

0

On when liquid

level falls

(Electronic wire

at upper position)



Principle of Operation

FLOSK (Horizontal)

The float moves according to changes in the liquid level. When the magnet comes close to the reed switch (high liquid level), the reed switch will be activated. When the liquid level falls, the contact point will be off again



FLOST (Vertical)

As the liquid level falls and the upper part of the float reaches L_1 , the contact point turns off. O The contact point is where the upper part of the float overlaps with the L₁ dimension.

📌 MiSUMi

(4) Insertion Type Connecting Terminal

These switches are designed as alarm or signal of water-level for liquids such as water and oil. By combining with a power supply interrupt circuit, it can be used as safety circuit to prevent liquid heaters from dry-running.



Confirm that there is no liquid leakage before use

- Avoid installing in places where the float cannot move smoothly

- When pouring liquid, do not splash it on the body of this product.

- After the wires are connected, observe the liquid level with eyes and confirm the output before actual use

leaters / Temperature Controll Insulating Plates