

## ■ FEATURES & BENEFITS

50 series manual control panels are heavy duty, UL listed control panels used for manual dewatering applications

Multi - voltage 208/230/460 VAC - operates all pump voltages

Heavy padlockable duty fiberglass enclosure  
Heavy duty on/off pump switch

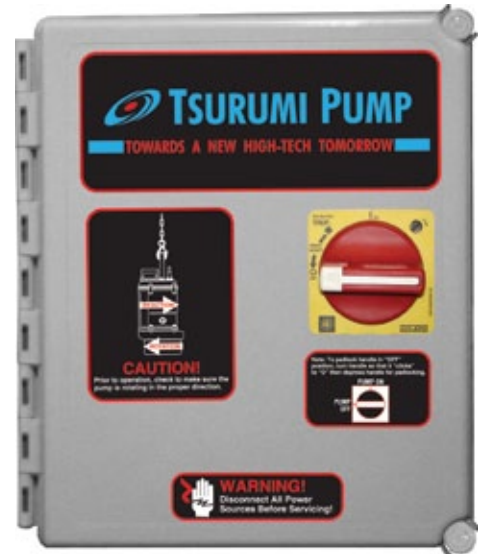
Motor Protective Switch - provides disconnect, short circuit and adjustable overload protection

Heavy duty pump and power watertight cable connectors - quick installation

Labeled/numbered field wiring terminals

Laminated schematic

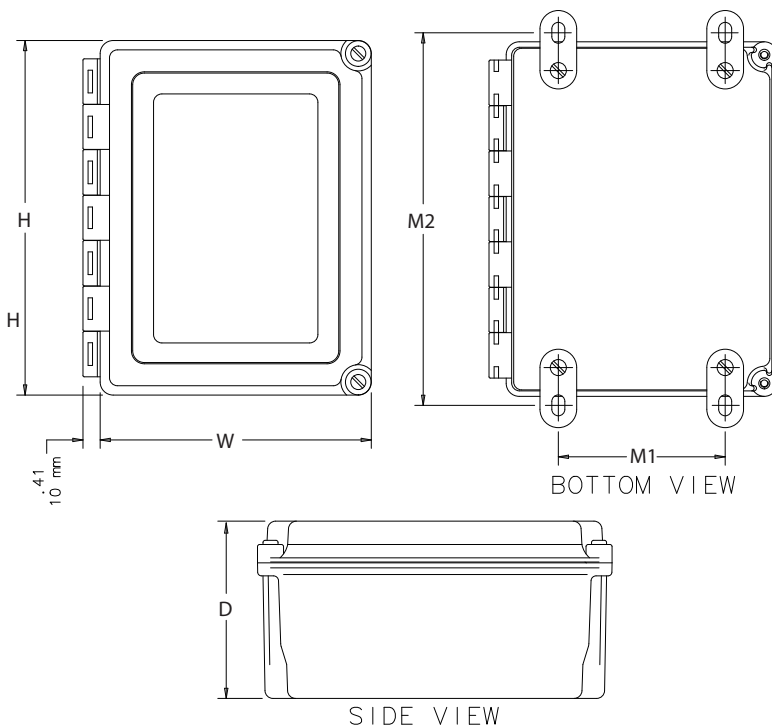
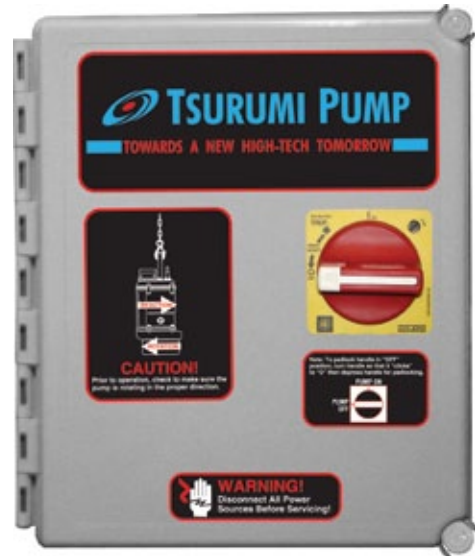
UL 508 Listed



For more information about 50 series control panels see the back of this page or contact Tsurumi Pump.

Dimension in inches

Model Number	Volts	Amps	W	H	D	M1	M2
5000	208/230/460	2.5-4.0	8.50	10.50	6.25	6.00	10.94
5001	208/230/460	4.0-6.3	8.50	10.50	6.25	6.00	10.94
5002	208/230/460	6.0-10.0	8.50	10.50	6.25	6.00	10.94
5003	208/230/460	9.0-14.0	8.50	10.50	6.25	6.00	10.94
5004	208/230/460	17.0-23.0	8.50	10.50	6.25	6.00	10.94
5005	208/230/460	24.0-32.0	8.50	10.50	6.25	6.00	10.94
5006	208/230/460	30.0-40.0	12.55	14.55	8.31	10.00	14.94
5007	208/230/460	37.0-50.0	12.55	14.55	8.31	10.00	14.94
5008	208/230/460	48.0-80.0	12.55	14.55	8.31	10.00	14.94
5009	208/230/460	1.6-2.5	8.50	10.50	6.25	6.00	10.94
5010	208/230/460	0.63-1.0	8.50	10.50	6.25	6.00	10.94
5011	208/230/460	60.0-90.0	12.55	14.55	8.31	10.00	14.94
5012	208/230/460	13.0-18.0	8.50	10.50	6.25	6.00	10.94
5013	208/230/460	30.0-50.0	12.55	14.55	8.31	10.00	14.94



### Description of Operation

50 series control panels are designed to manually operate pumps for dewatering applications. 50 series control panels are operated by turning the selector switch on the front of the control panel. Turning the selector switch to the "ON" position will activate the pump. Turning the selector switch to the "OFF" position will stop the pump.



# Tsurumi Pump

Typical Series 50 Schematic

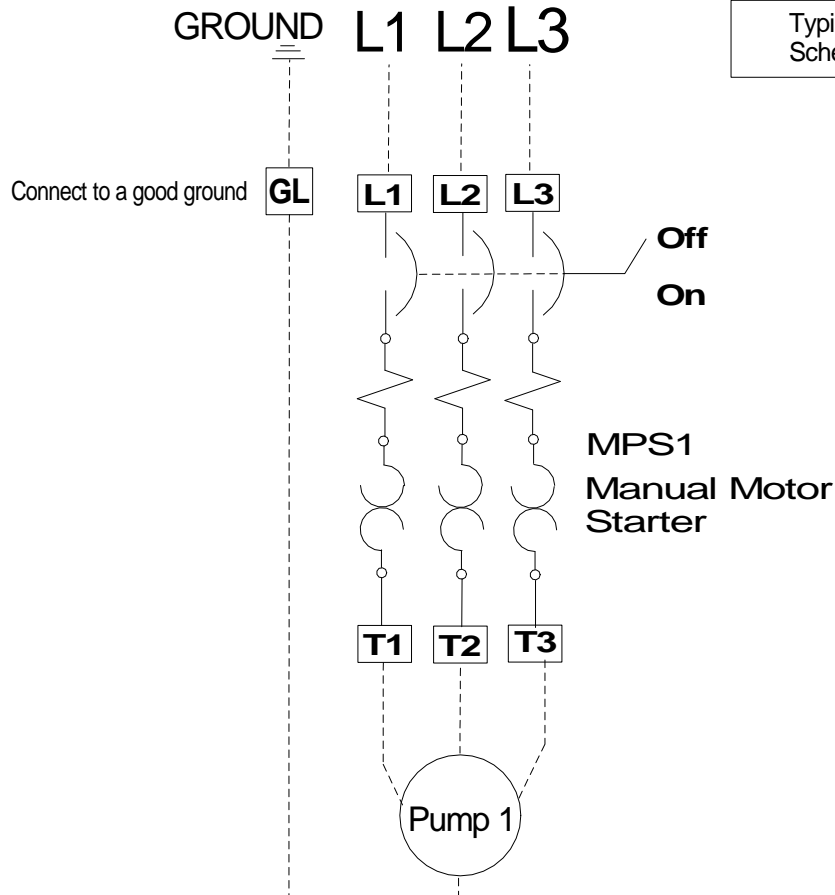
**LINE VOLTAGE: 460**  
**PHASE: 3**  
**HERTZ: 60**

AWG. OR CIRCULAR MILL SIZE	TIGHTENING TORQUE IN INCH POUNDS	
	SCREW DRIVER	EXTERNAL DRIVE WRENCH
14	35	75
12	35	75
10	35	75
8	40	75
6	45	110
4	45	110
2	50	150
1	50	150
1/0	50	180
2/0	50	180

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FIELD WIRING



TERMINAL BLOCK



Pump Load  
 208/230/460 VAC Three Phase  
 ADJUST OVERLOAD RELAY TO ACTUAL  
 FULL LOAD AMPS OF THE MOTOR

## NOTES:

1. WARNING! Electrical Shock Hazard! Disconnect power before servicing this product. A qualified service person must install and service this product according to applicable electrical and plumbing codes.
2. Install in accordance with National Electric Code, NFPA 70, Seal all boxes, fittings and conduit with appropriate seal devices to prevent moisture and gases from entering enclosure.
3. Connect all grounds to a good ground.
4. Dashed lines represent field wiring
5. Branch circuit protection devise/disconnect means field provided

## LEGEND:

MPS1 - Motor Protective Switch  
 (Manual Motor Starter)  
 GL - Ground Lug

DRAWN BY: B Sachs

DATE: 05/25/07

CHECKED BY: B Sachs

DATE: 05/25/07

APPROVED: B Klabunde

DATE: 05/25/07

## Tsurumi Pump

TITLE: 50 Series  
 Manual Control  
 1/2 to 30 HP

SIZE:  
**A**

DWG #  
 Manual 50XX  
 SHEET: 1 OF 1

REV:  
**A**