

## DESCRIPTION OF OPERATION

The 52 Series control panels are designed for automatic, float switch operation of pumps in dewatering applications. Upon rising water level, when the top float is above horizontal, the pump will activate and upon receding water level, the pump will deactivate once the bottom float drops below horizontal. To operate the pump manually, turn the Hand-Off-Auto (HOA) switch to the 'HAND' mode and for normal automatic operation, turn the HOA switch to the 'AUTO' position.

## STANDARD FEATURES

- UL listed control panels used for automatic dewatering applications
- Multi-voltage transformer, 208/230/460 VAC (operates all pump voltages)
- Heavy duty and padlockable NEMA 4X thermoplastic enclosure
- Green pump run indicator light, rated heavy duty and watertight
- Motor Protective Switch (MPS) - provides disconnect, short circuit, and adjustable overload protection
- Heavy duty IEC rated magnetic motor contactor
- Heavy duty watertight cable connectors for pump, power, and floats - quick installation
- Labeled/numbered field wiring terminals
- Thermal label schematic affixed to inner door
- Includes (2) 50 foot mechanical float switches
- UL 508 listed for USA and Canada



\*52 Series panels are designed for use with pumps with circle thermal motor protectors that do NOT require switching in the panel. If your pump has miniature motor protectors that requires thermal cutoff in the panel, see the 93 Series panels.

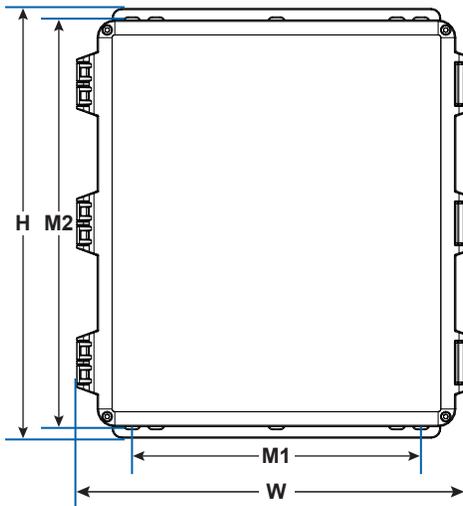
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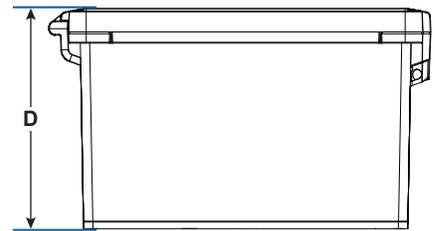
## SPECIFICATIONS

(Exterior Enclosure Dimension in Inches) (Cable Grip Diameter Range in Inches)

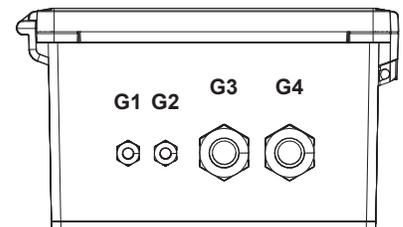
MODEL NUMBER	VOLTAGE	AMPERAGE	W	H	D	M1	M2	G1 and G2	G3 and G4
5200	208/230/460	2.5 - 4.0	10.03	11.85	7.27	6.00	10.75	0.12 - 0.35	0.43 - 0.83
5201	208/230/460	4.0 - 6.3	10.03	11.85	7.27	6.00	10.75	0.12 - 0.35	0.43 - 0.83
5202	208/230/460	6.0 - 10.0	10.03	11.85	7.27	6.00	10.75	0.12 - 0.35	0.43 - 0.83
5203	208/230/460	9.0 - 14.0	10.03	11.85	7.27	6.00	10.75	0.12 - 0.35	0.43 - 0.83
5204	208/230/460	17.0 - 23.0	10.03	11.85	7.27	6.00	10.75	0.12 - 0.35	0.51 - 1.02
5205	208/230/460	24.0 - 32.0	10.03	11.85	7.27	6.00	10.75	0.12 - 0.35	0.71 - 1.26
5206	208/230/460	30.0 - 40.0	16.09	17.85	9.27	12.00	16.75	0.12 - 0.35	0.71 - 1.26
5207	208/230/460	37.0 - 50.0	16.09	17.85	9.27	12.00	16.75	0.12 - 0.35	0.71 - 1.26
5208	208/230/460	48.0 - 65.0	16.09	17.85	9.27	12.00	16.75	0.12 - 0.35	0.71 - 1.26
5209	208/230/460	1.6 - 2.5	10.03	11.85	7.27	6.00	10.75	0.12 - 0.35	0.43 - 0.83
5210	208/230/460	0.63 - 1.0	10.03	11.85	7.27	6.00	10.75	0.12 - 0.35	0.43 - 0.83
5212	208/230/460	13.0 - 18.0	10.03	11.85	7.27	6.00	10.75	0.12 - 0.35	0.43 - 0.83
5213	208/230/460	20.0 - 50.0	18.16	19.85	11.27	14.00	18.75	0.12 - 0.35	0.71 - 1.26
5214	208/230/460	40.0 - 80.0	18.16	19.85	11.27	14.00	18.75	0.12 - 0.35	0.71 - 1.26



FRONT VIEW



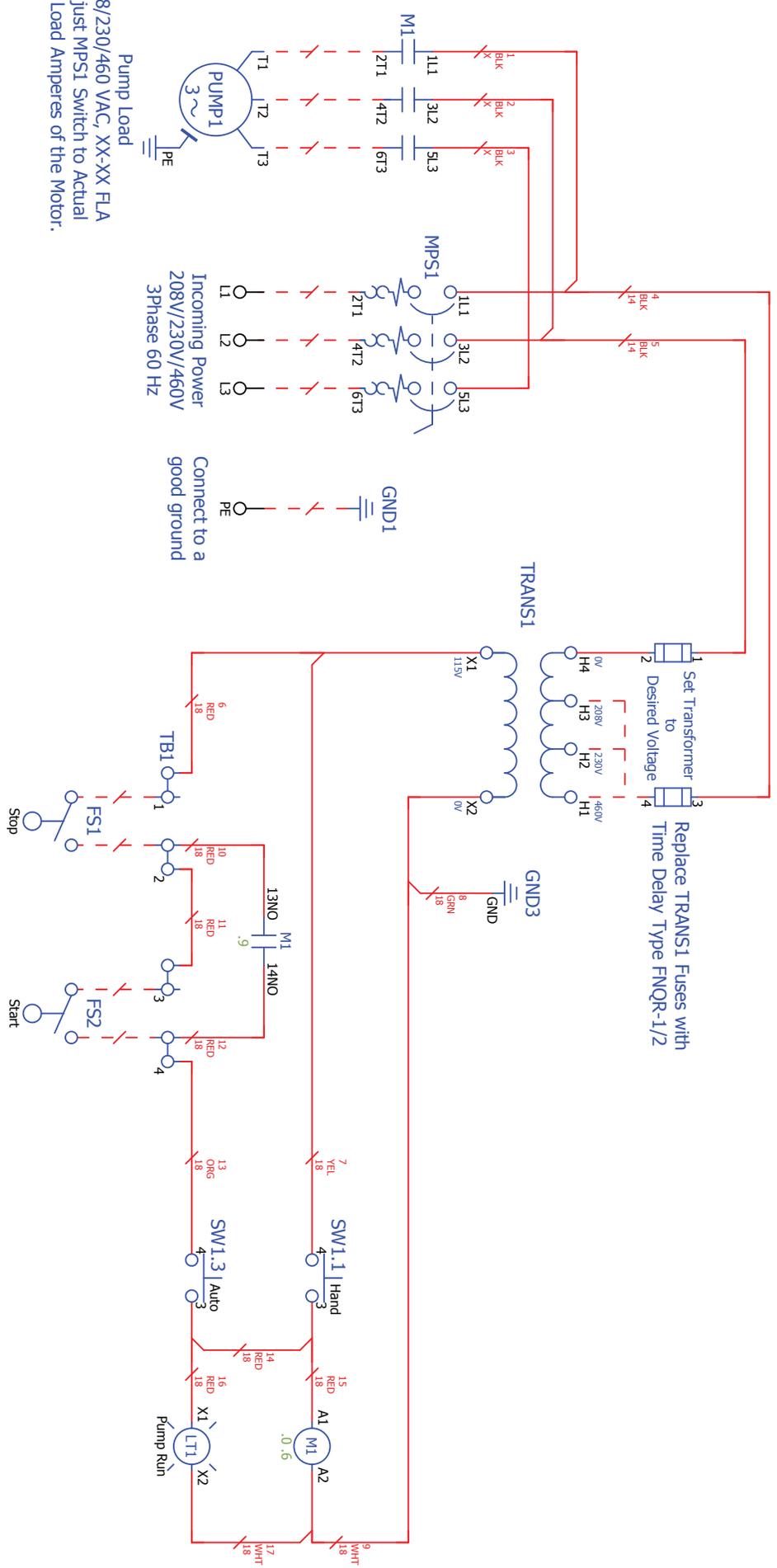
END VIEW



END VIEW - CABLE GRIPS

**CAUTION:** Nonmetallic enclosure does not provide grounding between conduit connections. Use grounding bushings and jumper wires.  
**ATTENTION:** Les boîtiers non-métalliques ne permettent pas de mise à la terre entre les connexions de conduits. Utilisez des manchons de mise à la terre et des fils de liaison.

Legend		Field Wiring	
Device Tag	Description	Primary Terminal	Secondary Terminal
GND1	Ground Lug	50 In-lb	
GND3	Ground Screw		
LTI	Green Light 120V		
M1	Contactor XX A	44 In-lb	11 In-lb
MPS1	Motor Protection Switch XX-XX A	70 In-lb	57 In-lb
PUMP1	Customer Supplied Three Phase Pump		
SW1.1;SW1.3	NO Switch Contact Block		
TB1	Terminal Block 20A		
TRANS1	Transformer w/Fuse 2P, 1/2A Fuse 50VA	20 In-lb	20 In-lb



Branch Circuit Protection Device/Disconnect Means Field Provided -  
 Size per manufacturing specifications for Pump/Motor

Schematic

**Tsurumi Pump**  
 1625 Fullerton Court  
 Glendale Heights, IL 60139  
 PH: 630/783-0127    TSPUMP@PUMPINC.COM

Model Number **DWG 52 Series Schematic**

Quote Number \_\_\_\_\_  
 Drawn By **B. Nelson**  
 Checked By \_\_\_\_\_  
 Date \_\_\_\_\_  
 Revision \_\_\_\_\_

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This drawing contains proprietary information which must not be duplicated, used, or disclosed in whole or in part without prior written consent.  
 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 gasses from entering enclosure.  
 3. Connect all grounds to a good ground. 4. Dashed lines represent field wiring - Use minimum 60 deg C Copper Wire 5. Branch Circuit Protection Device/Disconnect Means Field Provided.