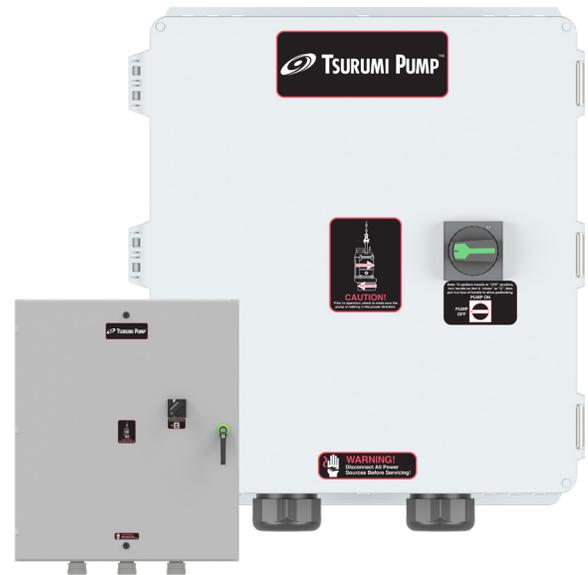


DESCRIPTION OF OPERATION

The 91 Series control panels are designed for manual operation of pumps in dewatering applications. Turning the door mounted selector switch to the 'ON' position will activate the pump. Turning the selector switch to the 'OFF' position will deactivate the pump.

STANDARD FEATURES

- UL listed control panels used for manual dewatering applications
- Multi-voltage, 208/230/460 VAC (operates all pump voltages)
- Heavy duty and padlockable NEMA 4X thermoplastic enclosure (steel enclosure used for 9129)
- Heavy duty on/off pump switch
- Motor Protective Switch (MPS) - provides disconnect, short circuit, and adjustable overload protection
- Seal Fail Relay (on certain pump models)
- Heavy duty watertight cable connectors for pump and power - quick installation
- Labeled/numbered field wiring terminals
- Thermal label schematic affixed to inner door
- UL 508 listed for USA and Canada

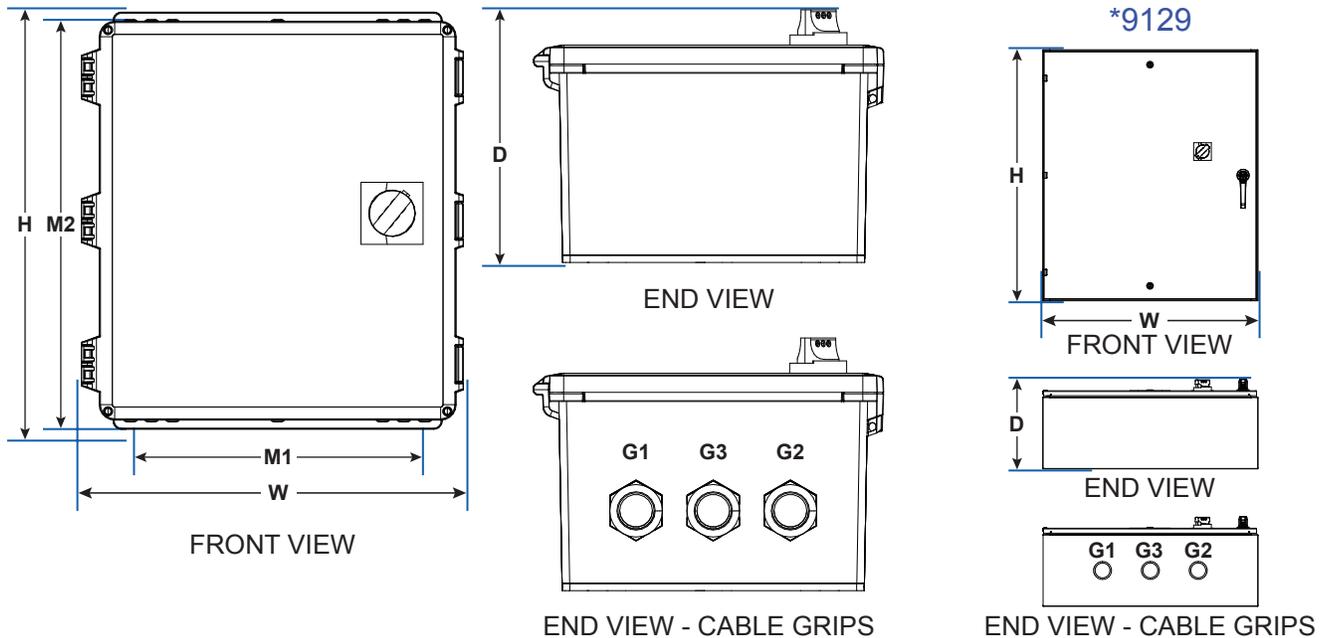


SPECIFICATIONS

(Exterior Enclosure Dimension in Inches) (Cable Grip Diameter Range in Inches) (Seal Fail Relay)

MODEL	VOLTAGE	AMPERAGE	W	H	D	M1	M2	G1	G2	*G3	ELECTRODE CIRCUITRY	FLOAT CIRCUITRY
9120	208/230/460	17.0 - 23.0	12.04	13.85	7.27	8.27	12.82	0.51 - 1.02	0.51 - 1.02	-	-	-
9122	208/230/460	30.0 - 40.0	18.16	19.85	11.27	14.25	18.99	1.38 - 1.89	1.38 - 1.89	-	-	-
9123	208/230/460	40.0 - 80.0	18.16	19.85	11.27	14.25	18.99	1.38 - 1.89	1.38 - 1.89	-	-	-
9124	208/230/460	40.0 - 80.0	18.16	19.85	11.27	14.25	18.99	1.38 - 1.89	1.38 - 1.89	-	Yes	-
9125	208/230/460	58.0 - 130.0	18.16	19.85	11.27	14.25	18.99	1.38 - 1.89	1.38 - 1.89	-	Yes	-
9126	208/230/460	58.0 - 130.0	18.16	19.85	11.27	14.25	18.99	1.38 - 1.89	1.38 - 1.89	1.38 - 1.89	Yes	-
9127	208/230/460	114.0 - 217.0	18.16	19.85	11.27	14.25	18.99	1.38 - 1.89	1.38 - 1.89	1.38 - 1.89	Yes	-
9128	208/230/460	114.0 - 217.0	18.16	19.85	11.27	14.25	18.99	1.38 - 1.89	1.38 - 1.89	1.38 - 1.89	Yes	Yes
9129	208/230/460	200.0 - 330.0	36.00	42.00	15.05	-	-	1.625 - 1.875	1.625 - 1.875	1.625 - 1.875	Yes	Yes

*G3 is a second cable grip meant for 2-cable pumps.

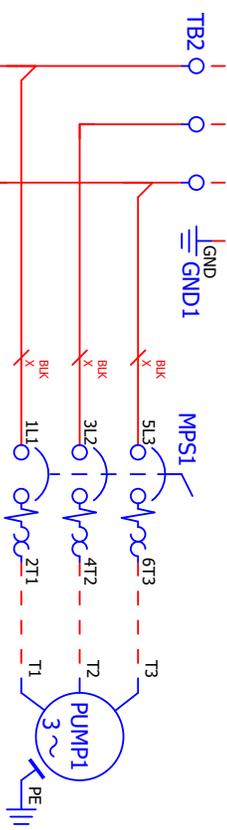


Incoming Power
208/230/460 VAC, 60 Hz

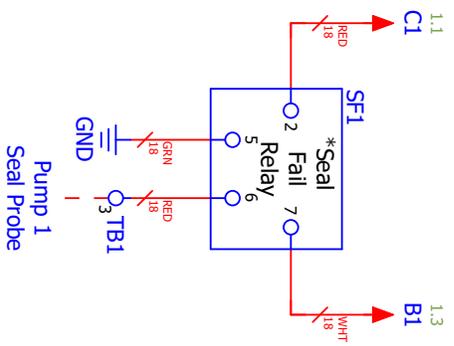
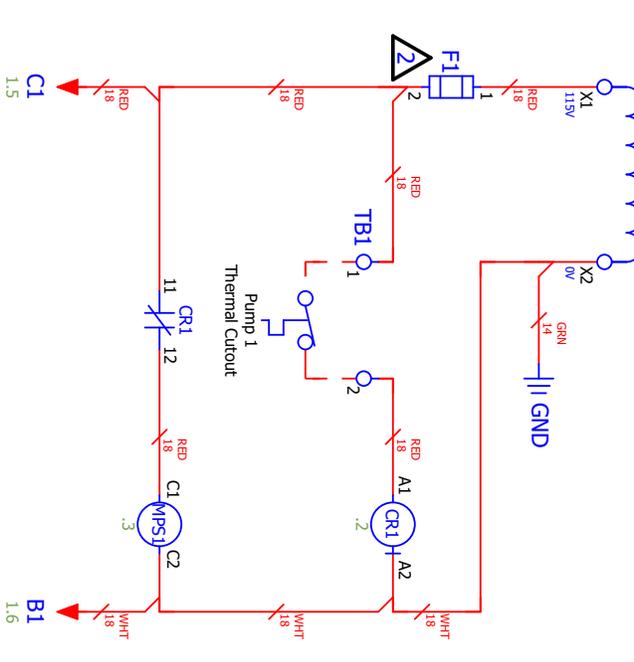
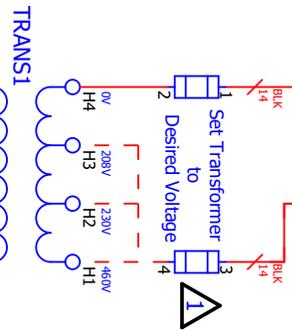
Branch Circuit Protection Device/Disconnect Means Field Provided -
Size per manufacturing specifications for Pump/Motor

Device Tag	Description	Priority	Quantity	Notes
CR1	Relay, 120VAC, SPDT		7 In-lb	
F1	3A Control Fuse		50 In-lb	
GND1	Ground Lug		50 In-lb	
MPS1	Motor Protection Switch XX-XXA		12 In-lb	
SF1	Shunt Module, 120VAC		9 In-lb	
TB1	Terminal Block 30A		6 In-lb	
TB2	Distribution Terminal			
TRANS1	Transformer W/Fuse 2P, 1/2A Fuse 500VA		20 In-lb	

Legend
- - - - - Field Wiring
. Field Supplied



Pump 1 Load
208/230/460 VAC, XX-XX Amps, 60 Hz
Adjust Motor Protective Switch to Actual Full Load Amps of the Pump.
Ground to Ground Lug.



*Seal Fail
Aux: Dry Contact
5A, 120V Max

* 9120 and 9123 DO NOT have a Seal Fail Relay
9128 and 9129 have 2 seal (electrode and float).

1 TRANS1 FUSES MUST BE REPLACED WITH
0.5 AMP TYPE FNQR SLOWBLOW 600V MAX

2 F1 FUSE MUST BE REPLACED WITH 3 AMP
TYPE 5mmX20mm FAST ACTING 250V MAX

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.

←INTRODUCTION/1

Schematic

→STANDARD REPORT/1→

1625 Fullerton Court
Glendale Heights, IL 60139
PH: 630/783-0127 TsurumiPump.com

Model Number DWG **Number** **Tsurumi 91 Series Schematic**

Quote Number	Drawn By	B. Nelson
Checked By	Date	
Revision		

Page Number
1 of 1

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. In whole or in part without prior written consent.
 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.