

STANDARD FEATURES

- Heavy duty UL 508 listed control panel used for sewage lift station applications
- Multi-voltage transformer operates 208/230/460 VAC
Exterior alarm test/silence switch
- Padlockable NEMA 4X thermoplastic enclosure
- Hand-Off-Auto (HOA) pump selector switch
- LEDs status indicators for power, pump run, float activation and seal fail (optional)
- Motor protectors provide disconnect, short circuit protection and adjustable overload protection
- IEC rated magnetic motor contactors
- Beacon with vibrant multi-color LEDs, green (normal/pump run), red (alarm), and amber (error/HOA off)
- Alarm buzzer 95dB warble w/ exterior test/silence switch
- Normally Open (NO) and Normally Closed (NC) Dry Alarm Contacts
- Labeled/numbered field wiring terminals
- Laminated electrical schematic
- (3) 20' mechanical float switches
- Configure button activates alarm test, clear alarms, and enables/disabled system configuration settings



AVAILABLE OPTIONS

- ☐ C2 - Control Fuse Disconnect Switch
- ☐ D2 - Main Disconnect (60A)
- ☐ H3 - Anti-condensation Panel Heater
- ☐ I - Intrinsically Safe float circuits
- ☐ L3 - Lightning Arrestor
- ☐ _____
- ☐ _____

Contact factory for additional options

- ☐ M2 - Elapsed Time Meters
- ☐ M4 - Combo Elapsed Time Meter/ Counters
- ☐ S2 - Thermal Cutout / Seal Failure
- ☐ WC - External Float Weights
- ☐ X4 - Phase Loss Relay
- ☐ _____
- ☐ _____

*Options will increase size of enclosure

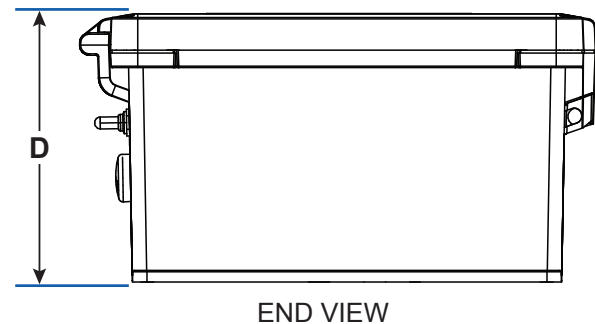
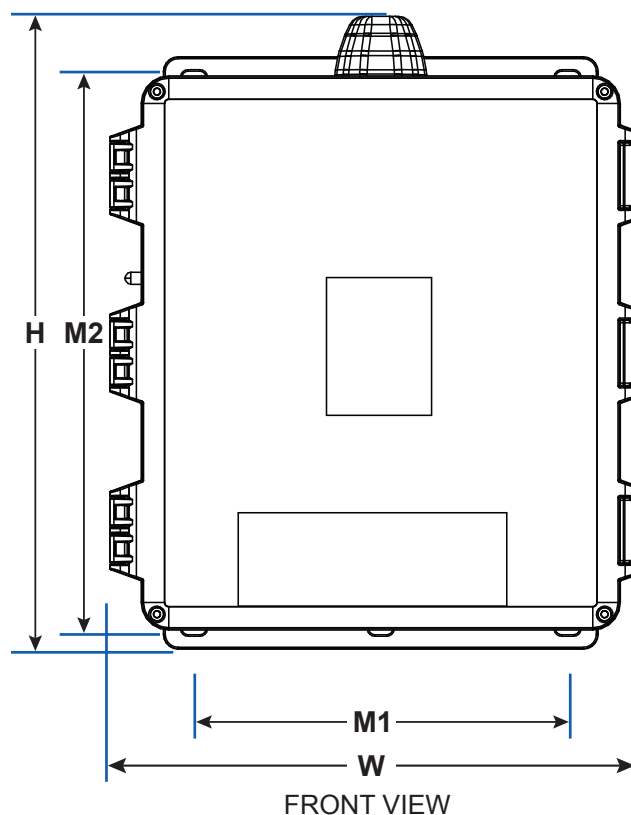


DESCRIPTION OF OPERATION

The TC-3D control panels are float switch operated and come standard with (3) 20' mechanical float switches for STOP, LEAD pump start, and LAG pump start/high liquid level alarm. As the liquid level rises, the LEAD float turns on activating the first pump until receding water level deactivates the STOP float. If the water continues to rise to the LAG/ALARM float, it will activate the second pump and alarm. Both pumps remain on until receding water level deactivates the STOP float. Lead and lag pumps will alternate on successive cycles to balance pump usage.

(Exterior Enclosure Dimension in Inches)

MODEL NUMBER	VOLTAGE	AMPERAGE	W	H	D	M1	M2
TC3D402A	208/230/460VAC	1.6 - 2.5	12.04	15.85	7.27	8.27	12.82
TC3D403A	208/230/460VAC	2.5 - 4.0	12.04	15.85	7.27	8.27	12.82
TC3D404A	208/230/460VAC	4.0 - 6.3	12.04	15.85	7.27	8.27	12.82
TC3D405A	208/230/460VAC	6.3 - 10.0	12.04	15.85	7.27	8.27	12.82
TC3D406A	208/230/460VAC	9 - 14	12.04	15.85	7.27	8.27	12.82
TC3D407A	208/230/460VAC	13 - 18	12.04	15.85	7.27	8.27	12.82
TC3D408A	208/230/460VAC	17 - 23	12.04	15.85	7.27	8.27	12.82
TC3D409A	208/230/460VAC	20 - 25	12.04	15.85	7.27	8.27	12.82
TC3D410A	208/230/460VAC	24 - 30	12.04	15.85	7.27	8.27	12.82
TC3D411A	208/230/460VAC	30 - 40	18.16	19.85	13.11	14.00	18.75
TC3D412A	208/230/460VAC	37 - 50	18.16	19.85	13.11	14.00	18.75
TC3D413A	208/230/460VAC	48 - 65	18.16	19.85	13.11	14.00	18.75
TC3D414A	208/230/460VAC	63 - 80	27.73	28.31	11.50	21.88	25.07

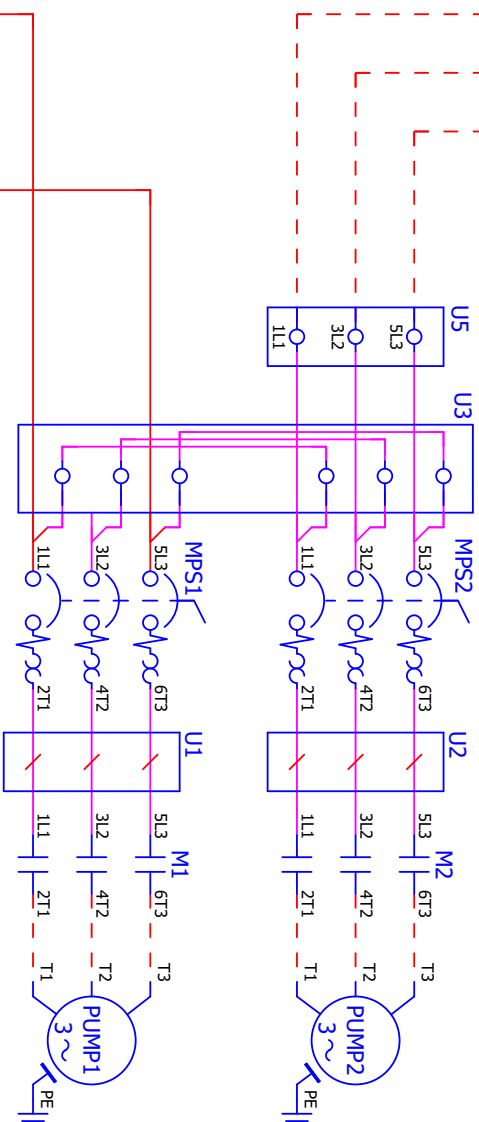


Branch Circuit Protection Device/Disconnect Means Field Provided - Size per manufacturing specifications for Pump/Motor

Legend

Device Tag	Description	Primary Voltage	Secondary Voltage
GN1	Ground Lug	45 In-lb	
GN3	Ground Screw		
MP51:1:MP52	Motor Protection Switch 2.5-4.0 A	15 In-lb	
TRANS1	Transformer w/0.5A Fuse, 50VA	20 In-lb	20 In-lb
U1:J2	Interconnect		
U3	Busbar 63A, 2 Pole		
U5	Terminal Block 63A	20 In-lb	

Incoming Power
208/230/460 VAC, 60 Hz



Pump 2 Load
208/230/460 VAC, 2.5-4 Amps, 60 Hz
Adjust Motor Protective Switch to
Actual Full Load Amps of the Pump.
Ground to Ground Lug.

Pump 1 Load
208/230/460 VAC, 2.5-4 Amps, 60 Hz
Adjust Motor Protective Switch to
Actual Full Load Amps of the Pump.
Ground to Ground Lug.

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

