

WeatherTrace WTP, WTPM Freeze Protection Heat Trace Panels

- Standard NEMA 4 Enclosures
- NEMA 4X Stainless Steel Enclosure Option
- Hand/Off/Auto Selector Switch
- 15, 20, 30, 40 and 50 Amp Single-pole and Double-pole 30mA Ground Fault Thermal-Magnetic Circuit Breakers
- Voltage Options:
 - 208/120 VAC 3-Phase, 4-Wire
 - 240/120 VAC Single Phase, 3-Wire
 - 480/277 VAC 3-Phase, 4-Wire
- 50 to 250 Amp Main Breaker
- Ambient and Line Sensing Control
- Enclosure Heater Options for Condensation Prevention or Freeze Protection on Outdoor Installations
- UL and cUL Third Party Approvals



WTP



WTPM



Description

The Chromalox WTP series freeze protection heat trace panels offer power-distribution, ground-fault protection, individual circuit alarming and ambient sensing control.

The panels are housed in NEMA 4 enclosures for indoor/outdoor applications. NEMA 4X 304 stainless steel enclosures may be selected as an option for more harsh environments.

The WTP/WTPM units can be configured with 50 to 250 Amp main breaker ratings in Single and Three-Phase configurations. Branch circuit breakers are available in 15, 20, 30, 40 and 50 amp single-pole and two-pole configurations with 30mA ground-fault equipment protection.

WTP – Freeze Protection Ambient Sensing Series

The WTP panels provide group control of multiple heat trace circuits for pipe freeze protection via an ambient sensing external thermostat or electronic controller. The WTP can also be configured for group control of snow melting or deicing applications using our internal temperature/moisture controller. Chromalox recommended controllers include: ChromaMelt-2R, RTAS, RTBC or the TPR. The WTP may be operated in two modes; automatically with the external controller, or in manual override via the Hand/Off/Auto selector switch.

WTPM – Freeze Protection Ambient Sensing Monitor Series

The WTPM WeatherTrace with the HMI Monitoring, continually monitors the supply voltage to each individual heat trace circuit. Loss of voltage or a ground fault condition will trigger an automatic alarm condition, alerting plant personnel of critical process problems and reducing downtime. An annunciator panel then identifies the faulted zone and a Common Alarm is activated with the re-ring feature.

The WTPM panels provide group control of multiple heat trace circuits for pipe freeze protection via an ambient sensing thermostat, electronic controller or door mounted HMI. The WTPM can also be configured for group control of snow melting or deicing applications using our internal temperature/moisture controller. Chromalox recommended controllers include: ChromaMelt-2R, RTAS, RTBC, or TPR with HMI.

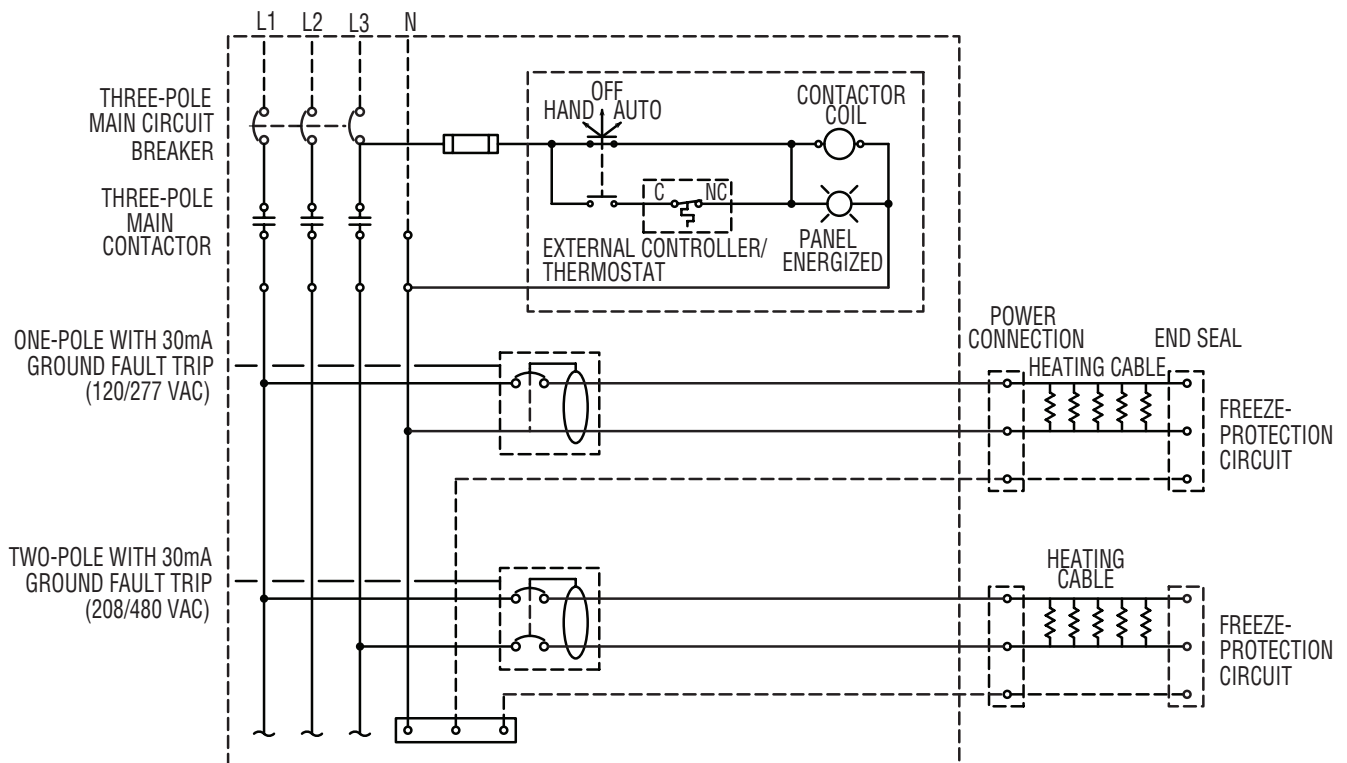
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WeatherTrace WTP, WTPM Freeze Protection Heat Trace Panels *(cont'd.)*

Specifications

Power Source	208/120 VAC 3-Phase, 4-Wire 240/120 Single Phase, 3-Wire 480/277 VAC 3-Phase, 4-Wire
Ambient Operating Temperature	-40°F to 104°F (with Enclosure Heater)
Incoming Wire Size	50 - 100A MCCB, 14 - 3/0 AWG 200 - 250 A MCCB, 3/0 AWG - 350 kcmil
Load Wire Size	18 - 8 AWG (15 - 30 Amp C.B.), 18 - 6 AWG (40-50 Amp C.B)
Ground Fault Breaker Type	30mA Ground Fault Equipment Protection
Enclosure	NEMA 4 or NEMA 4X 304 Stainless Steel (option)
Main Breaker Size	50-250 Amp Two-Pole Main Disconnect Switch with through Door Rotary Handle 50-250 Amp Three-Pole Main Disconnect Switch with through Door Rotary Handle
Approvals	UL and cUL

Three Phase 208/120 4-Wire or 480/277 4-Wire



*EXTERNAL CONTROLLER/THERMOSTAT SOLD SEPARATELY

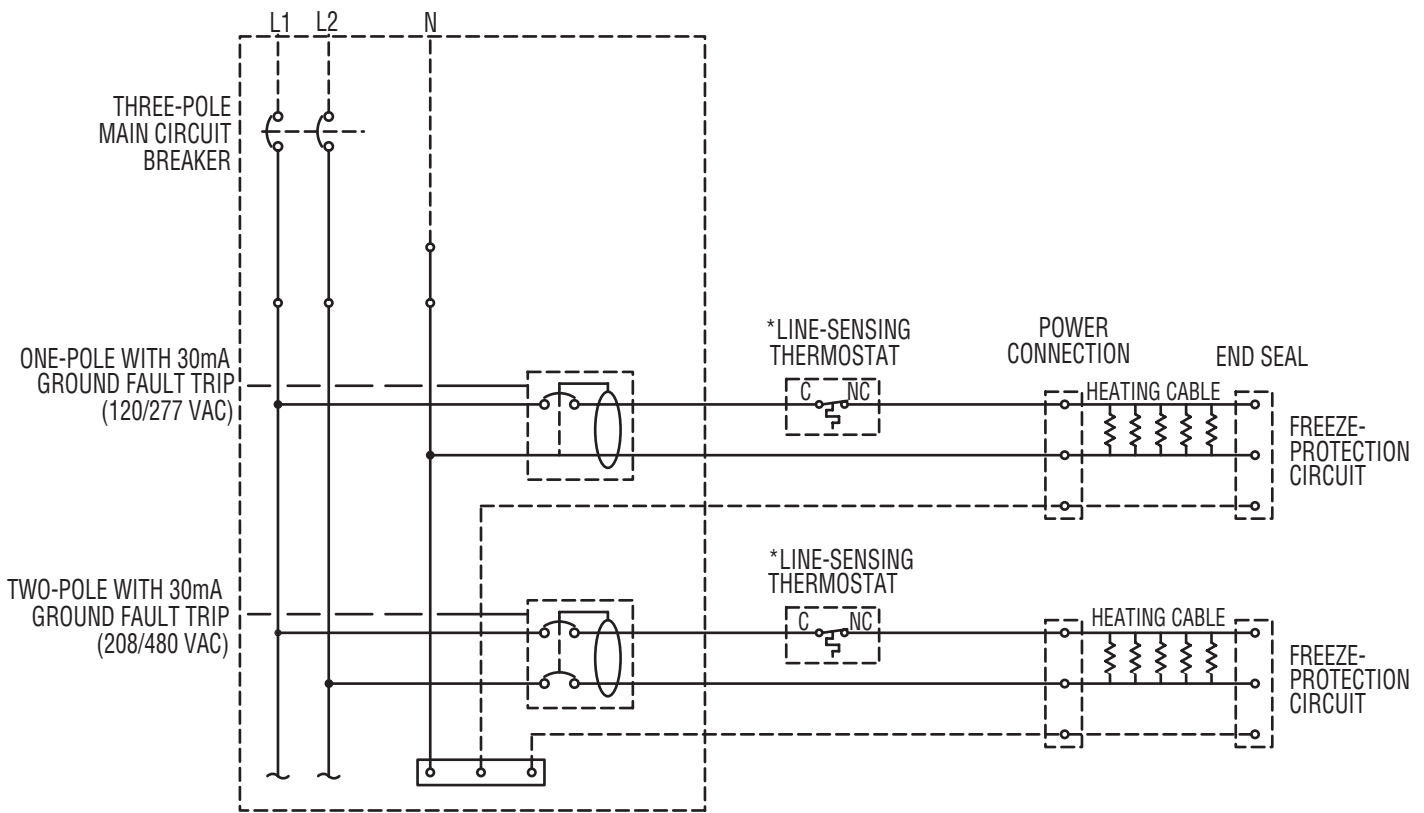
WeatherTrace

WTP, WTPM

Freeze Protection Heat Trace Panels

(cont'd.)

Line Sensing Single Phase 240/120



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	Typical Model Number																								

WeatherTrace

WTP, WTPM

Freeze Protection Heat Trace Panels

(cont'd.)

Spare/Replacement Parts

Part Number	Description
0017-43857	15A 1P Circuit Breaker (120V or 277V)
0017-43858	20A 1P Circuit Breaker (120V or 277V)
0017-43859	30A 1P Circuit Breaker (120V or 277V)
0017-43860	40A 1P Circuit Breaker (120V)
0017-43861	50A 1P Circuit Breaker (120V)
0017-43865	15A 2P Thermal Mag Circuit Breaker (208/240V or 480V)
0017-43866	20A 2P Thermal Mag Circuit Breaker (208/240V or 480V)
0017-43867	30A 2P Thermal Mag Circuit Breaker (208/240V or 480V)
0017-43868	40A 2P Thermal Mag Circuit Breaker (208/240V)
0017-43869	50A 2P Thermal Mag Circuit Breaker (208/240V)
0017-43761	120V, 208/240V Ground Fault Protection
0017-43762	277/480V Ground Fault Protection

Model Number Note

'-XXXX Indicates that the design has varied from the order table parameters. This could include one or more of the following non-standard considerations: Special Software or Configuration, Private Branding, Remote Monitoring/Touch-Screen Computer, Third Party Approval, Floor Stands, Protective Covering, Heater Power and RTD Terminal Blocks, Cooper Ground Bar, Mounting Options, Special Materials (316 S) or coatings, Additional Venting or Cooling, Special Indication or Alarms.

Table 1: Enclosure Size Selection

Circuits - Poles	NEMA 4 Enclosure Size (H" x W" x D")
6 Loop 1P*	24x20x10*
6 Loop 2P	30x30x10
12 Loop 1P	30x30x10
12 Loop 2P	42x36x12
18 Loop 1P	42x36x12
18 Loop 2P	42x36x12
24 Loop 1P	42x36x12
24 Loop 2P	42x36x12

*Note: Table 1 is a general guideline for Enclosure Size Selection. Adding certain options could cause enclosure size to differ. Adding a Remote Snow Sensor or any main breaker over 100A to the 6 loop panel will cause the enclosure size to go to the next size up. If Panel dimensions are critical Consult Factory for exact selection.