

Heat-tracing power distribution panel for group control

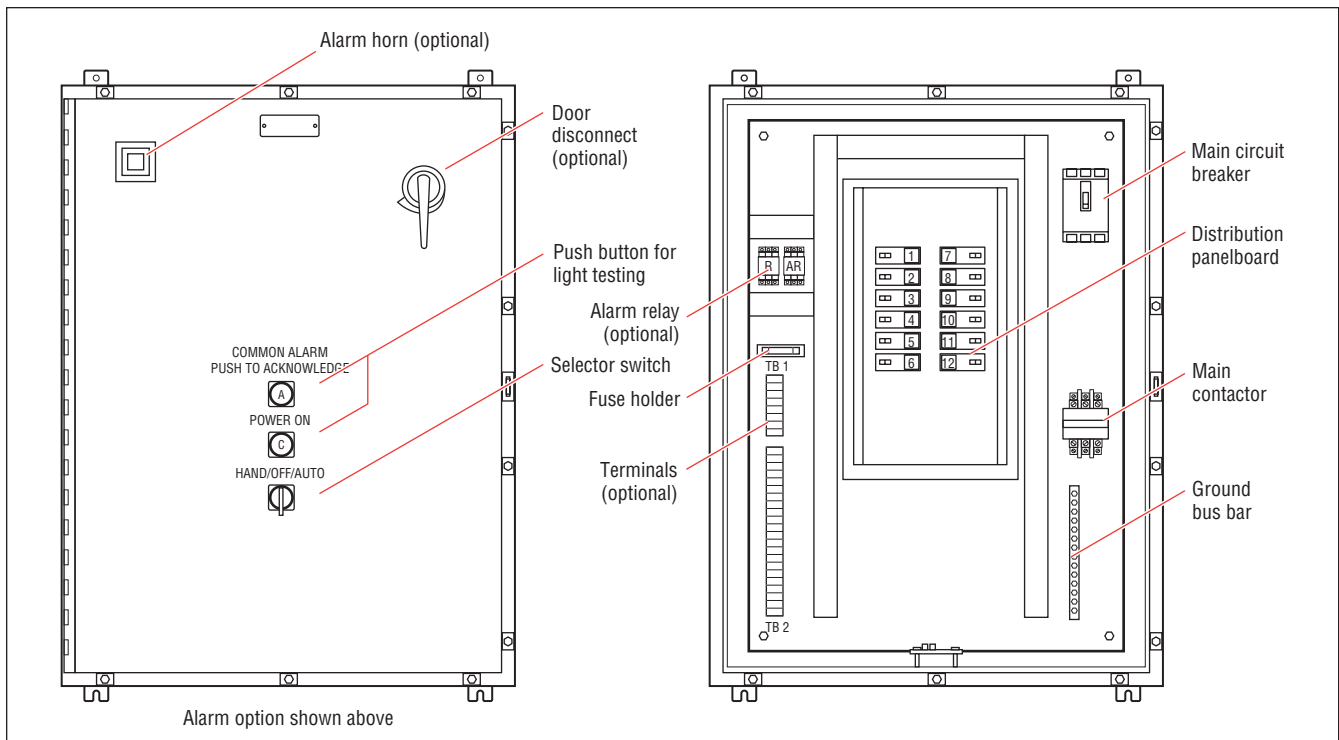
Ground-fault protection, monitoring, and optional alarm panel

The HTPG is a dedicated power distribution, control, ground-fault protection, monitoring, and alarm panel for freeze protection and broad temperature maintenance heat-tracing applications. This wall-mounted

enclosure contains an assembled circuit-breaker panelboard.

Panels are equipped with circuit breakers with or without alarm contacts.

The group control package allows the system to operate automatically in conjunction with an external controller/thermostat.

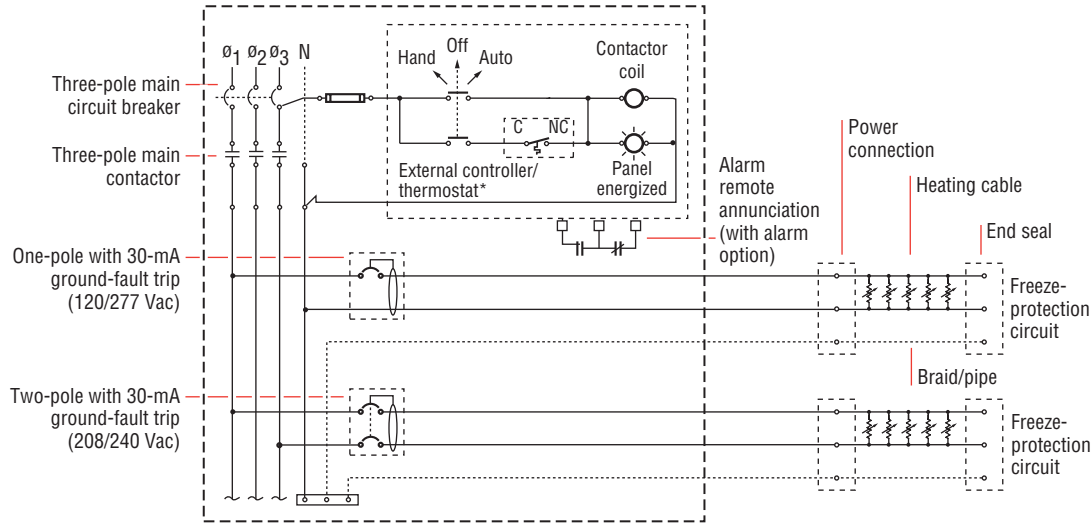


Load Power	120/208/240/277 Vac
Ambient Operating Temperature	32°F (0°C) to 122°F (50°C) (without space heater option)
Field Wire Size	14–8 AWG (15–30 Amp C.B.), 8–4 AWG (40–50 Amp C.B.)
Circuit Breaker Types*	
Ground-fault breaker	Square D types QOB-EPD, EHB-EPD
Standard circuit breaker	Square D type QOB * To comply with NEC Article 427-55(a), circuit breakers are equipped with the means for lockout in the "Off" position.
Circuit Breaker Amperage Rating	
120 Vac	20 A, 30 A, 40A*, 50A* * Standard C.B. only
208/240/277 Vac	20 A, 30 A, 40 A, 50 A
Main Contactor	3-pole

Approvals



HTPG Typical Freeze-Protection Application Schematic



HTPG Catalog Number

HTPG comes in a variety of configurations. The following chart outlines the elements that constitute a configuration and the corresponding catalog number.

HTPG - Voltage - Panelboard - C.B. type - # of C.B./# of poles (rating) - Enclosure - MCB - Options

HTPG - 277/480 - 30 - 2 - 14/1P (30) - 4X - 200 - H

Voltage
 120/208 120/240* 277/480

Panelboard size
 12 = 12 space panelboard (except 277 V)
 18 = 18 space panelboard (277 V only)
 20 = 20 space panelboard (120/240 V only)
 24 = 24 space panelboard (120/208 V only)
 30 = 30 space panelboard
 42 = 42 space panelboard
 54 = 54 space panelboard (277 V only)

Circuit breaker type
 1 = Standard circuit breakers**
 2 = GFCB (30-mA trip) without alarm
 3 = GFCB (30-mA trip) with bell alarm
 4 = GFCB (30-mA trip) with relay alarm (includes terminal block option). Not available for 277 V

Number of circuit breakers/number of poles (circuit breaker rating) see prior page
 # of breakers (no bell alarm option)

	120 V (1P)	208 V (2P)	240 V (2P)	277 V (1P)	277 V** (std. C.B.) (1P)
12	(1-12)	(1-6)	(1-6)	-	-
18	-	-	-	(1-8)	(1-18)
20	(1-20)	-	(1-10)	-	-
24	(1-24)	(1-12)	-	-	-
30	(1-30)	(1-14)	(1-14)	(1-14)	(1-30)
42	(1-42)	(1-20)	(1-20)	(1-20)	(1-42)
54	-	-	-	(1-26)	-

of breakers (bell alarm option)

	120 V (1P)	208 V (2P)	240 V (2P)	277 V (1P)
12	(1-6)	(1-4)	(1-4)	-
18	-	-	-	(1-8)
20	(1-10)	-	(1-6)	-
24	(1-12)	(1-8)	-	-
30	(1-14)	(1-10)	(1-10)	(1-14)
42	(1-20)	(1-14)	(1-14)	(1-20)
54	-	-	-	(1-26)

- Option**
 O = None
 A = Alarm horn (requires C.B. type 3 or 4)
 B = Alarm beacon (requires C.B. type 3 or 4)
 C = Heat-trace contactor failure light
 D = Door disconnect
 E = Environmental purge (NEMA 4 or 4X enclosures only)
 F = Main breaker fault light
 G = Panel power-on light
 H = Space heater and thermostat
 L = Individual circuit breaker trip indication lights
 P = Heat-trace energized light
 T = Terminal blocks (prewired)
 Z = Z-purge system (NEMA 4 or 4X enclosures only)
SP = Special requirement. Must contain complete description of variance

MCB

Main circuit breaker and contactor

Panelboard size	120/208	120/240	277/480
12	50, 100	60, 80	-
18	-	-	70, 80, 90, 100
20	-	60, 80	-
24	50, 100	-	-
30	50, 100, 150, 200, 225	60, 80, 150, 200	100, 150, 200, 225
42	50, 100, 150, 200, 225	60, 80, 150, 200	100, 150, 200, 225
54	-	-	100, 150, 200, 225

- Enclosure**
 1 = NEMA 1 (indoors)
 12 = NEMA 12 (indoors)
 4 = NEMA 4 (outdoors)
 4X = NEMA 4X (stainless steel-outdoors)
- * Single phase ** For buried MI only