



Protector Trip Relays Wall Mounted A.C. Voltage with Adjustable Differential

Application

The Crompton a.c. Voltage Protectors provide continuous surveillance of the monitored circuit. When the measured voltage moves outside the setpoint limit, the relay will operate giving an alarm and or initiation signal.

An illuminated LED indicates when the relay is energized. The 3 phase, 3 or 4 wire models, protect each phase independently. The Protector can be used to protect for:-

- ✓ Under and Over voltage detection
- ✓ Start up standby generators
- ✓ Operation of mains failure units
- ✓ Switching standby hybrid supplies

Product Function

1. Standard over voltage relays will energize on trip when the nominal input voltage plus the user adjustable 'over nominal value' is exceeded. The relay will automatically reset to de-energize when the input voltage is lowered past the setpoint minus the hysteresis value.
2. Standard under voltage relays will de-energize on trip when the input voltage is below the nominal value minus the user adjustable 'under nominal value'. The relay will automatically reset to energize when the input voltage is raised past the setpoint plus the hysteresis value.

Specification

This model is U.L. recognized up to 300V

CSA approved up to 240V

Nominal Voltage: 100, 110, 120, 208, 220, 280, 270, 400, 415, 440V

System Frequency: 45/65Hz or 360/440Hz

Overload
1.2 x continuously
1.5 x for 10 x 10 seconds

Setpoint

Repeatability: Better than 0.5%

Differential: Adjustable range 1-15%

Range: Adjustable Under Voltage 75 to 100% Over Voltage 100 to 125% of nominal input voltage

Time Delay: Preset (specify) Maximum 30 seconds

Burden: 3VA

For full specification see page H2

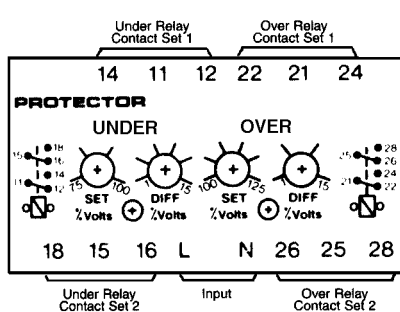
For dimensions see page H22

On request, any product can be manufactured with the energize/de-energize function reversed.

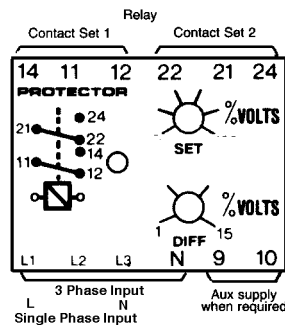
SYSTEM	PROTECTION	ANSI N°	CATALOG NUMBER
A.C. VOLTAGE			
Single Phase 120V L-N	Under Voltage 75-100% Over Voltage 100-125%	27 59	252-PVUU-PQBX-C6-EB 252-PVOU-PQBX-C6-EA
3 Phase 3 Wire 120V L-L	Over and Under Voltage (2 output relays) Under Voltage 75-100% Over Voltage 100-125%	27/ 59 27 59	253-PVBU-PQBX-C6-EC 252-PVKU-PQBX-C6-EB 252-PVAU-PQBX-C6-EA
3 Phase 4 Wire 120V L-N	Over and Under Voltage (2 output relays) Under Voltage 75-100% Over Voltage 100-125% Over and Under Voltage (2 output relays)	27/ 59 27 59 27/ 59	253-PVMU-PQBX-C6-EC 252-PVVU-PQBX-C6-EB 252-PVPU-PQBX-C6-EA 253-PVEU-PQBX-C6-EC

Connection Diagrams

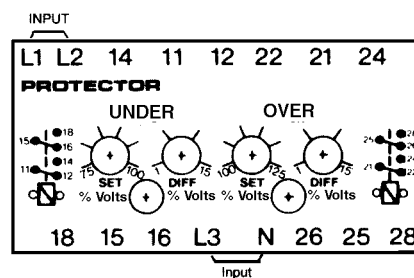
H
4



253-PVBU



252-PVU/PVOU
PVV/PVP/PVK/PVAU



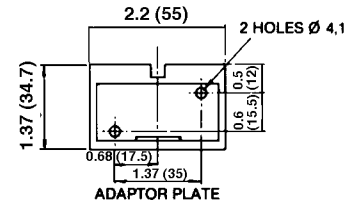
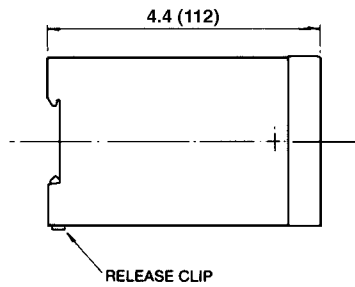
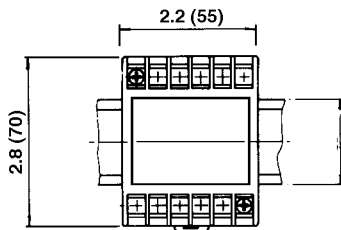
253-PVEU/PVMU



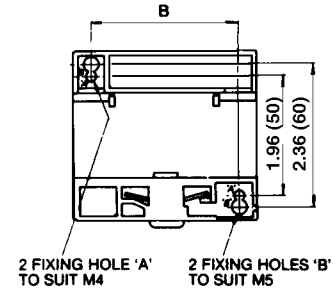
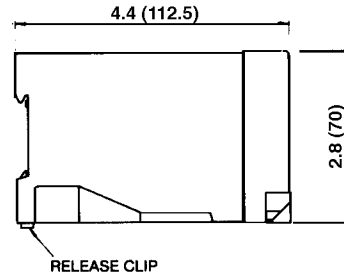
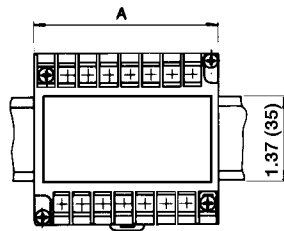
Protector Trip Relays

Protector Trip Relays Wall Mounted Dimensions

Model 252



Model 253 and
256



Model	A	B
253	2.9 (75)	2.4 (60)
256	5.9 (150)	5.3 (135)

Protector Trip Relays Panel Mounted

Dimensions Model 262

