



Description

- Star Delta Slim Timer : PF-01 Series is a timer used for Star-Delta circuits to start motors, helping to reduce peak current during motor startup.
- The Star delay time can be set from 0.3 to 120 seconds.
- The pause time can be set from 100 to 1,000 msec. to provide a gap between the operation of the magnetic contactors for Star and Delta.
- 2 relay output contacts rated at 5A/250VAC, 5A/30VDC.
- Power supply supports both 180–500VAC and 150–350VDC.
- Compact size, easy DIN rail installation.
- LEDs indicate the operating status of Star and Delta.

Specification

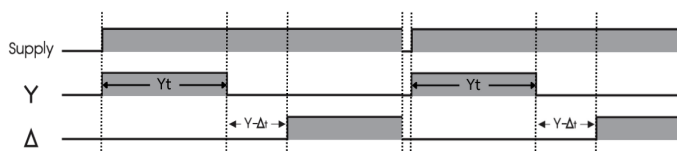
Power Supply and Measurement	
Operating Voltage (Un)	150-350VDC / 180 - 500VAC
Operating Frequency	50 - 60 Hz
Power Consumption	< 3VA
Delay	
Star Delay Time	0.3-30 Sec, 1-120 Sec Adjustable
Pause Time	100 - 1,000 mSec Adjustable
Output	
Relay Output Type	2x Form C (SPDT)
Maximum rating	5A 250Vac / 5A 30Vdc
Environment	
IP Protection class	IP20
Operating temperature	0 - 60 °C
Operating humidity	10 - 85% RH
Connection	DIN Rail Mounted
Enclosure	ABS-V0 (UL-94 V0)
Size (mm.)	62 x 17.50 x 90.40
Weight (kg.)	62

Operation

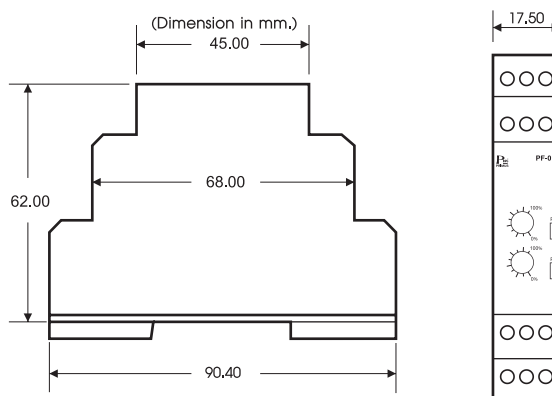
Star Delta Slim Timer : PF-01 Series is a Star-Delta timer used for starting large motors in three-phase systems, helping to reduce peak current during motor startup. This ensures that the current used to start the motor does not exceed the locked-rotor current rating and helps prevent voltage drop during motor starting.

When power is supplied to the PF-01 power supply, the relay output of the Star (Y) circuit operates first. When the preset Star time (Y_t) has elapsed, the Star (Y) relay output stops operating and the timer counts the pause time ($Y-\Delta t$) to provide a gap between the operation of the magnetic contactors for Star and Delta so they do not operate simultaneously. After the pause time ($Y-\Delta t$) has elapsed, the relay output of the Delta (Δ) circuit operates continuously.

- The Star delay time can be set from 0.3 to 120 seconds.
 - Two operating time ranges can be selected via a jumper: 0.3–30 seconds and 1–120 seconds
- The pause time can be set from 100 to 1,000 msec.



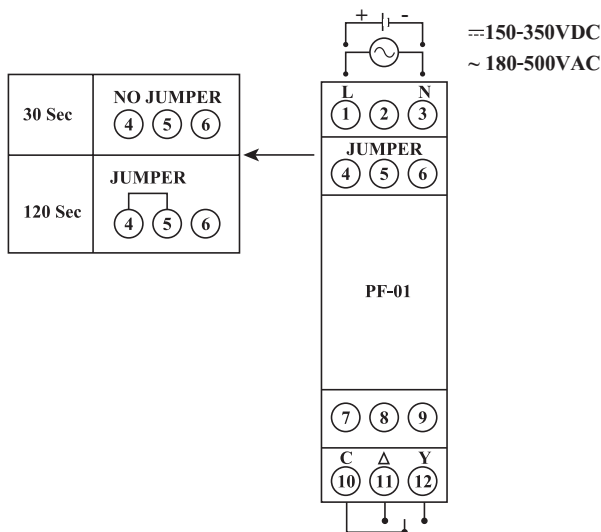
Dimension



Ordering Code

PF - 01

Wiring Diagram



- Make sure the correct wiring connection before turning on electricity. Mis-wiring may cause malfunction of the unit and fire.
- Never modify the unit to prevent damage or incident such as malfunction and fire etc.