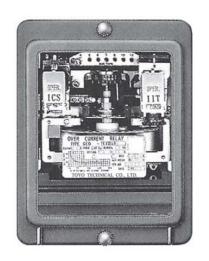
TOYO

欠相繼電器 Phase Open Relay

TYPE TVP

Phase open relay is used for rotary machine protection against the fault of negative phase voltage when one phase is open or under voltage. Type TVP-OC1 is for tripping and/or alarm. Type TVP-OC2 is suitable for 3-phase motor protection in 220V system and it has a magnetic switch to select automatic operation or manual operation.



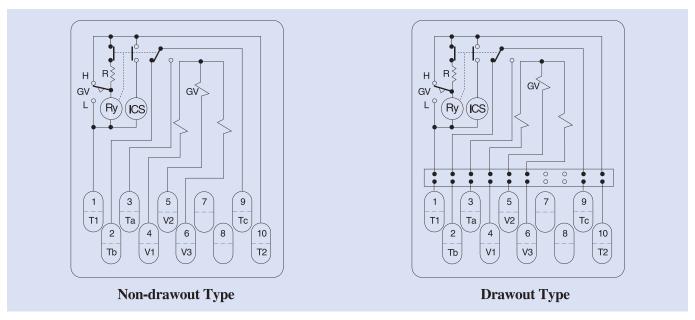
■ CHARACTERISTIC

- Operating time of Phase Open: 2 ± 0.4 sec.
- Operating time of Reverse Phase: 1 ± 0.2 sec.
- Operating value of Under Voltage: < 80% of rated voltage.
- · Operating time of No Voltage: about 4 sec.

■ SPECIFICATION

Туре	Rated Voltage	ICS Unit	Rated Burden	Figure	Weight
TVP-OC1	110V		3.0 VA		
TVP-OC9	190V	AC	6.0 VA	Fixed	3.6 kg
TVP-OC2	220V	or	6.0 VA		
TVP-OCD1	110V	DC	3.0 VA		
TVP-OCD9	190V	110V	6.0 VA	Drawout	4.4 kg
TVP-OCD2	220V		6.0 VA		

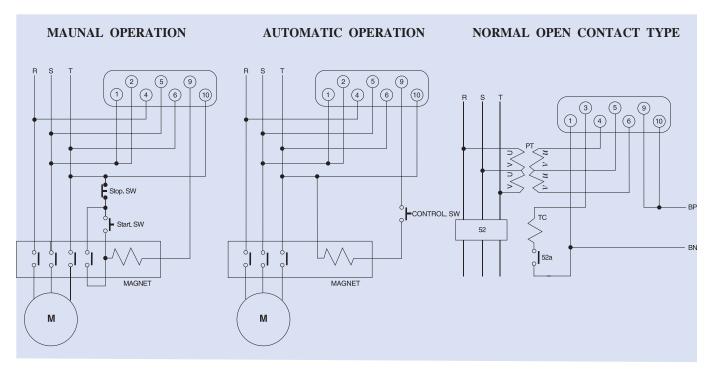
■ INTERNAL CIRCUIT DIAGRAM



CAUTION!

When the relay is energized with 3-phase voltages, "H" contact in the relay is closed by rotating the disk. But in case of misconnection of 3-phase rotation, "H" contact remains open because of the torque produced by negative phase voltage, and you have to check the connection of any two phases of the relay.

■ EXTERNAL WIRING DIAGRAM



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