

TOYO

過/不足電壓繼電器 Over / Under Voltage Relay

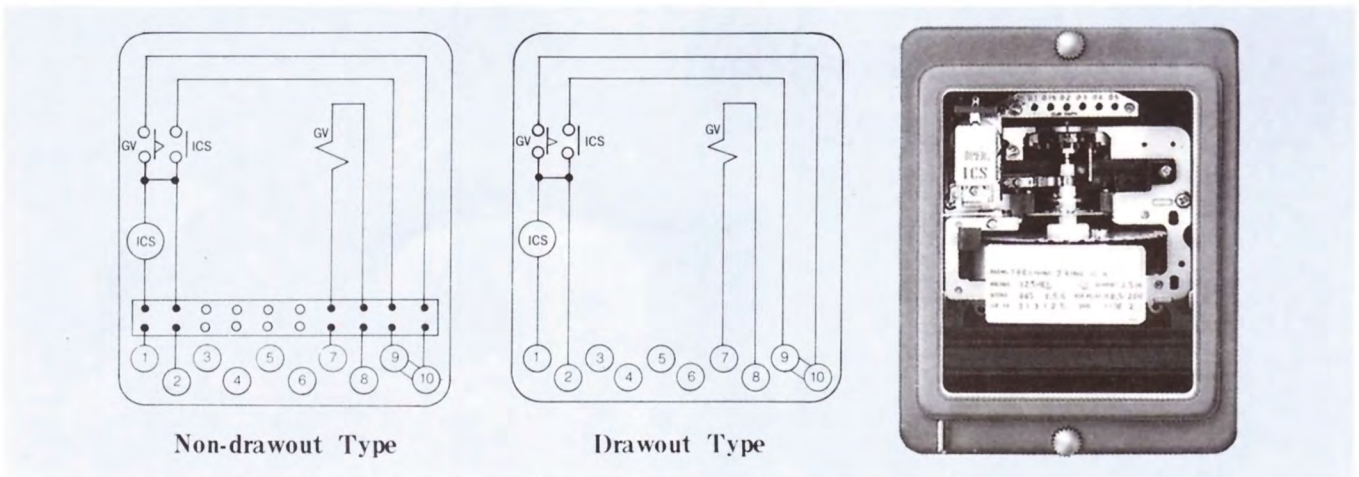
■ TYPE TOV-C (常時開路形：Normally Open Contact)

When voltage rises over a given value, the main contact is closed after time delay and trips a circuit breaker. This relay needs D.C power source for tripping and is suitable for detecting abnormal voltage rise in A.C circuits.

■ TYPE TUV-C (常時開路形：Normally Open Contact)

When voltage drops below a given value, the main contact is closed after time delay and trips a circuit breaker. This relay needs D.C power source for tripping and is suitable for detection of abnormal voltage drop in A.C circuit.

■ INTERNAL WIRING DIAGRAM



■ SPECIFICATION

(Values at 60Hz)

Type	Rating (V)	Tap Range	ICS Unit (DC)	Figure	Weight (Kg)
TOV-C1	110V	110, 120, 130, 140, 150V	0.5A	Non-drawout	≒ 3.2
TOV-C2	220V	220, 240, 260, 280, 300V			
TOV-CD1	110V	110, 120, 130, 140, 150V	0.5-2.0A	Drawout	≒ 4.0
TOV-CD2	220V	220, 240, 260, 280, 300V			
TUV-C169	110V	60, 65, 70, 75, 80, 85, 90V	0.5A	Non-drawout	≒ 3.2
TUV-C269	220V	160, 165, 170, 175, 180, 185, 190V			
TUV-CD169	110V	60, 65, 70, 75, 80, 85, 90V	0.5-2.0A	Drawout	≒ 4.0
TUV-CD269	220V	160, 165, 170, 175, 180, 185, 190V			

■ OPERATING VALUE SETTING

When you will be setting the operating voltage value, must be set on the setting voltage plate in the relay.

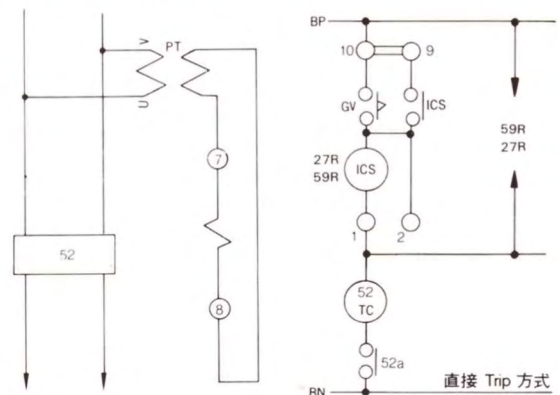
■ TIME LEVER SETTING

You must be decide the operating time before setting by the time lever above the rotary disk and refer to Time-Voltage characteristic. When the shipping, be posited at 10 position of time lever.

Note : Don't close a circuit breaker before A.C voltage is applied to the under voltage relay. In case of closing circuit breaker before A.C. voltage is applied to the relay, Open the main contact of the relay manually.

■ EXTERNAL WIRING DIAGRAM

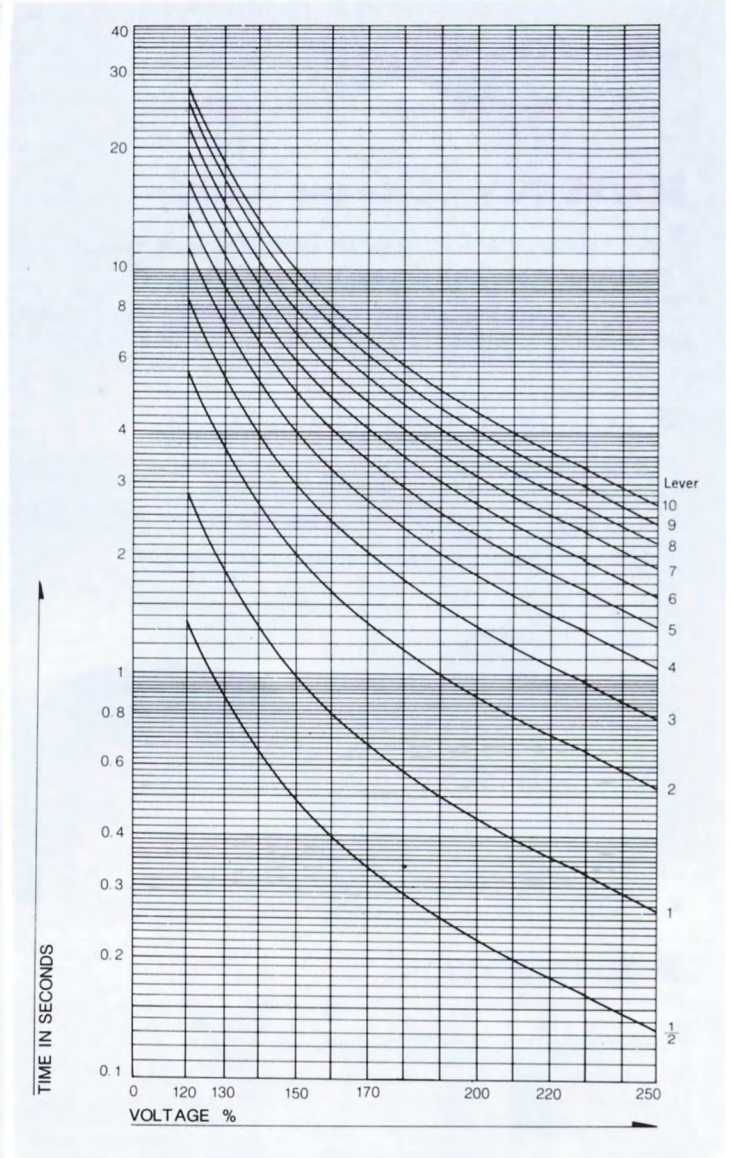
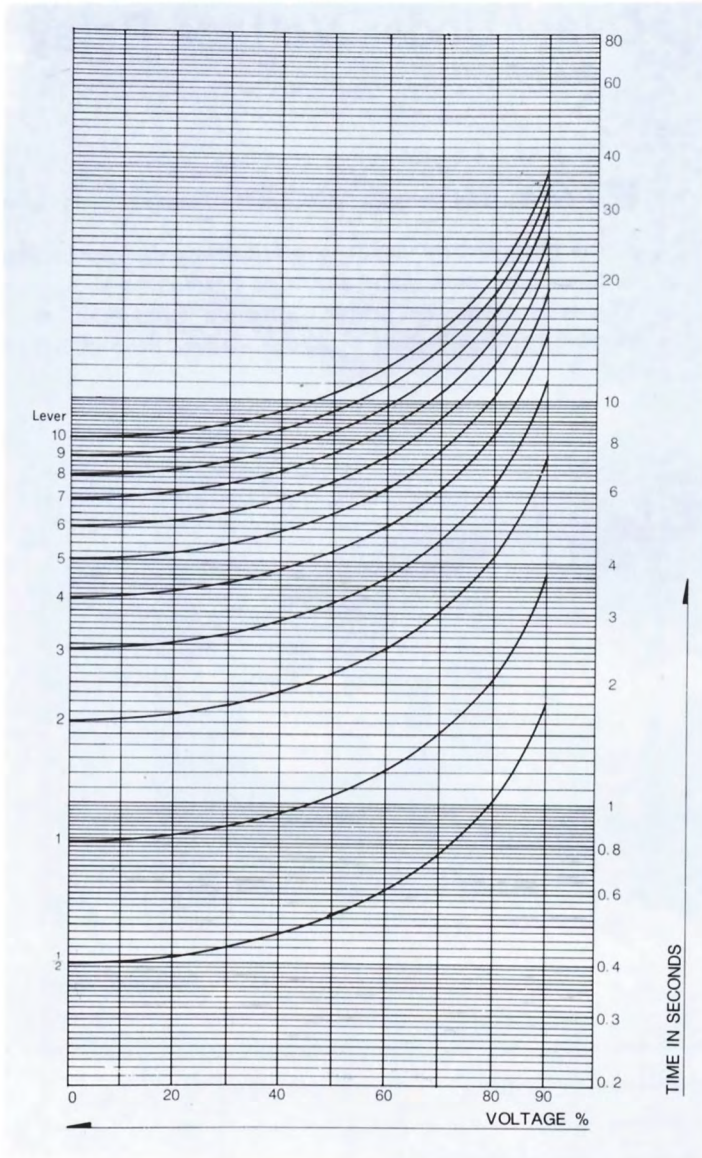
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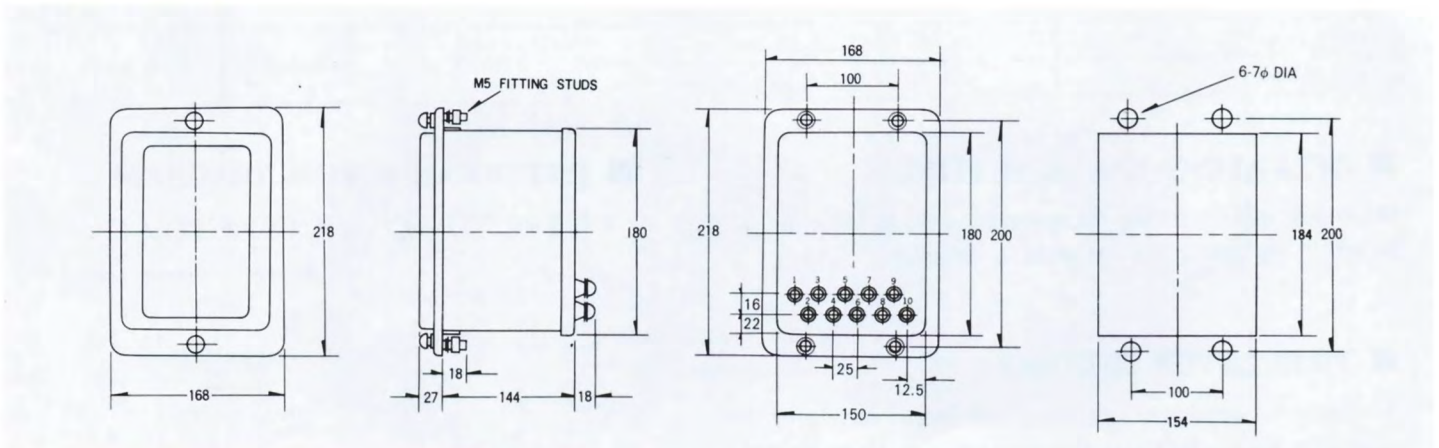
TIME & VOLTAGE CHARACTERISTICS

UNDER VOLTAGE RELAY

OVER VOLTAGE RELAY



DIMENSIONS



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