MULTI FUNCTION OVER AND UNDER VOLTAGE RELAY[59/27]3Ø

CE

DOU-M33D DOV-M33D DUV-M33D [59/27] 3Ø (Draw out) [59] 3Ø (Draw out) [27] 3Ø (Draw out)



IEC255 JEC 2500, 2511

Specifications

Rating

Rated Voltage Frequency Auxiliary Voltage Ambient temperature AC 110V 60/50Hz±5% AC/DC 110V(80~260V) -10°C to 60°C(with noicing)

■ Voltage setting

Over Voltage range Under Voltage range 100~160V/(steps of 5V) 50~120V/(steps of 5V)

■ Time setting & Curve Definite time or Inverse time

INST. 0.1~10(steps of 0.1)±10% Over Voltage time Under Voltage time INST. 0.1~10(steps of 0.1)±10% Instantaneous timeLess than 60ms Reset Value OV:V(90%, UV:V) 110% Reset time Less than 100ms

Burden

Over Voltage Under Voltage Aux, Voltage

Less than 2VA Less than 2VA 12VA(AC), 6W(DC)

■Contact

Output Relay

DOU-M33/M33D Trip 2c(OV,UV) DOV-M33/M33D Trip 1c.Alarm 1a DUV-M33/M33D Trip 1c.Alarm 1a

Trip & contact capacity Make

Break

AC 240V 10A(L/R=0ms) DC 1000W 0.5Sec(L/R=0ms) AC 240V 3A(L/R=0ms) DC 30W 0.5Sec(L/R=0ms)

Indicator

Operating start Operating(Trip) LED(Red) LED(manual Reset)

Operating time

Over Voltage Under Voltage **Degree Protection**

■Vibration resistance Malfunction

Shock resistance Destruction:

■ Insulation to IEC 255 Dielectric withstand

Insulation resistance at Impluse Voltage Withstand Surge transient simulator Weight

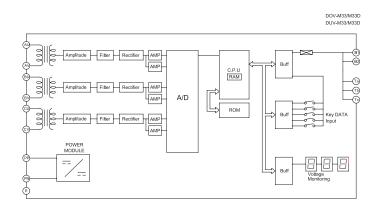
Inverse or definite time IP 52

0Hz 5mm double amplitude 30s each in X and Y directions 16.7Hz 2.5mm double amplitude 600s each in X,Y, and Z directions

300% (approx. 30G) 3 time each in 3 directions

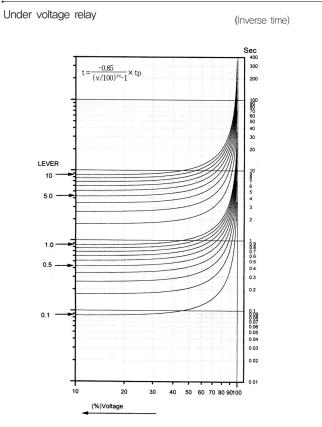
2kV for 1 minute between all terminals and case earth 500V > 1,000MΩ 5kV-1.2/50 µs 2.5kV 1MHz/200 Q[IEC 255-6] 2.2kg

Block diagram



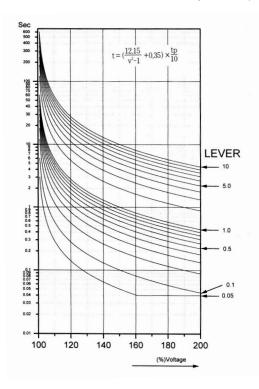
MULTI FUNCTION OVER AND UNDERVOLTAGE RELAY[59/27]10,30 (E

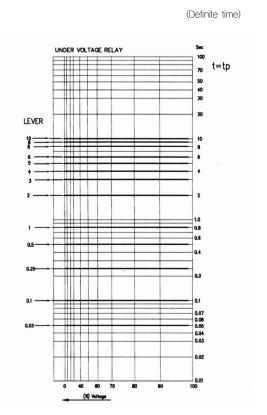
Operating time curves



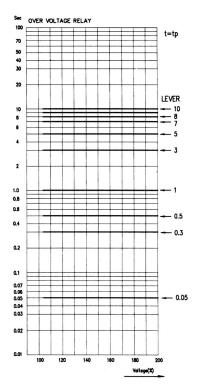
Over voltage relay

(Inverse time)





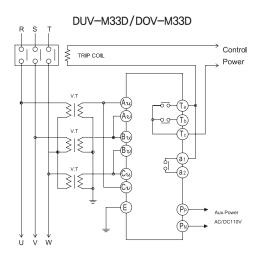
(Definite time)



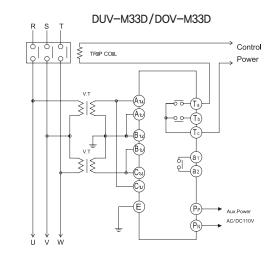
MULTI FUNCTION OVER AND UNDERVOLTAGE RELAY[59/27]10,30 (E

Wiring

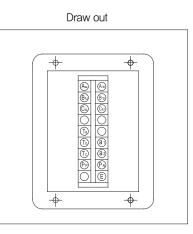
Y-Connection 110V



V-Connection 110V



Terminal Arrangement



Demension

