DIRECTIONAL GROUND RELAY[67]

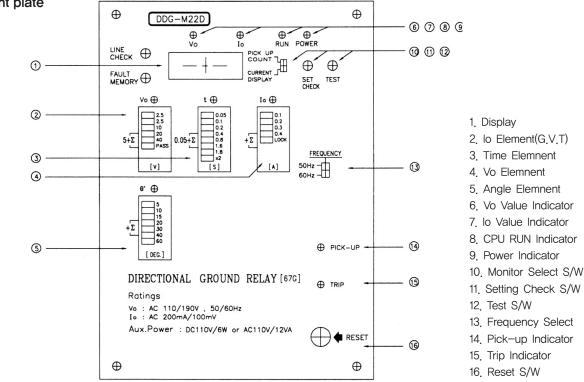
DDG-M22D



Characteristics

Directional ground relay being non-grounded type ground protection is activated by zero phase sequence voltage(tertiary voltage of GPT installed on bus line) and zero phase sequence current (secondary current of ZCT installed on each phase)

- A precision fillter circuit is employed at input end for accurate determination of the detection even when signal wave form is distorted.
- Since the burden of zero phase sequence voltage (Vo) input end is minimized, any single unit of small capacity ground potential transformer (GPT) can support several or more relays at one time.
- Taps provided for time limit setting offer convenient means of reserver protection.



Front plate

DIRECTIONAL GROUND RELAY[67]

DDG-M22D(Draw out)

IEC 255 JEM 1394

Specifications

Model

DDG-M22D(Draw out)

Rating

AC 110/190
200mA/100mV
50/60Hz±5%
AC/DC 110V(86~260V)
-10°C to 60°C(with no icing)

■Current setting

Operating	
Current Setting tap(lo)	0.1-1.0A(0.1A step)±10%
Voltage Setting tap(Vo)	5~82.5V(steps of 2.5V)
Characteristic angle	$0{\sim}180^{\circ}$ (steps of 5°)
Zone of operating ± 90 (Erro	$r\pm10^{\circ}$)(lead)

■Time setting Curve

Operating	
Time tap	0.05~10s (steps of 0.05 sec)
Resetting Value	>90%
Reset time	<100ms

Less than 1VA

Trip 1c, Alarm 1a

AC 240V 10A(L/R=0ms)

AC 240V 3A(L/R=0ms)

DC 30W 0.5Sec(L/R=0ms)

DC 1000W 0.5Sec(L/R=0ms)

8VA(AC)

LED

Burden

G. P. T terminal(G1, G2) Aux. Voltage

■Contact

Out put Relay Trip & contact capacity Make

Break

Indicator

Operating(trip)

■Vibration resistance

Malfunction

10Hz 5mm double amplitude 30s each in X and Y directions 16,7Hz 2,5mm double amplitude 600s each in X,Y, and Z directions

■Shock resistance

Destruction;

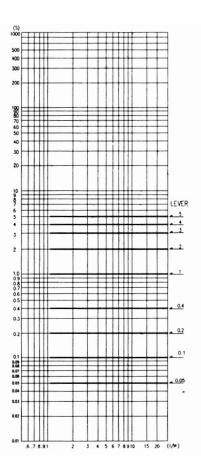
■ Insulation to IEC 255 Dielectric withstand

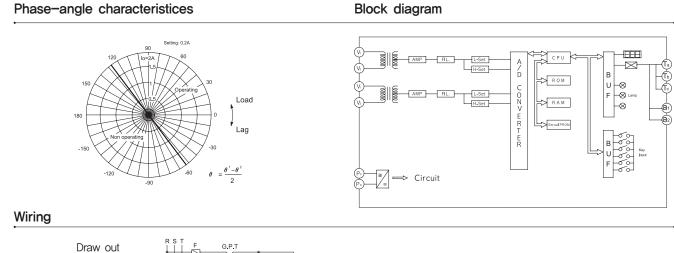
Insulation resistance at Impluse Voltage Withstand Surge transient simulator Weight

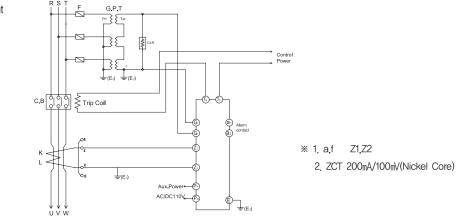
300% (approx. 30G) 3 time each in 3 directions

2kV for 1 minute between all terminals and case earth 500V \rangle 100M $_{\Omega}$ 5kV-1.2/50 μ s 2.5kV 1MHz/200 $_{\Omega}$ 2.2kg

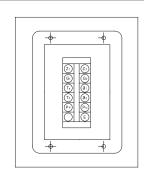
Operating time curves







Terminal arrangement



Draw out

Dimension

