

Megawin Switchgear

MCDG Single/Three pole Over Current /Earth Fault Relay



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The type MCDG31 relay is a heavily damped induction disc unit with an IDMT characteristics. The relay gives selective phase over current and earth fault protection in the time graded Systems.

The operating coil is wound to provide time Vs Current characteristics curves of identical shapes in any of the current plug settings. If the plug is removed then the highest tap is automatically selected. This helps in changing the plug setting, even when the feeder is loaded, without the fear of CT secondary getting open circuited. Due to the high torque design the relay ensures consistent accuracy.

If the instantaneous highest protection is needed, the same can be offered with the introduction of highest over current attracted armature units to the disc units.

Time multiplier setting is done by rotating a knurled screw against a time scale.

Features

- Can be offered in single or three pole version (MCDG11 or MCDG31)
- Combination of either two Over current (O/C)+ One Earth fault (E/F) or three Over current relay in a single unit.



MCDG Single/Three pole Over Current /Earth Fault Relay

- Can be offered with instantaneous (highest) unit, Type MCDG61
- IDMT Curves (1.3 sec or 3 Sec) as per IEC-255
- Low burden
- Self powered hence no need for Auxiliary power
- Consistent Repeat Accuracy
- Hand Reset Type Mechanical Flag Indicator
- Very low over shoot

Rating

- CT Secondary current 1A or 5 A

Setting Range

- IDMT O/C : 50-200% in steps of 25% TMS : 0.1 to 1.0 in steps of 0.1
- IDMT Earth Fault : 10% to 40% in steps of 5% IDMT curve desired 1.3 sec or 3 secs or 20% to 80% in steps of 10%
- TMS : 0.1 to 1.0 in steps of 0.1
- High set Over Current : 250% to 2000%
- High set Earth Fault : 100% to 400%
- Accuracy : As per IS-3231 / BS 142
- Burden : Nominal : 3VA, At Lowest current tap : 2.5VA, At highest current tap : 3.5VA

Information Required with order :

Relay type : Single / Three pole

Model : MCDG11/MCDG31/MCDG61/MCDAG31/MCDAG51

CT secondary : 1A or 5A

Current setting range for earth fault unit

Auxiliary Contact : Self-reset or Hand reset, instantaneous unit, if required.

Case : 1D V(Single pole), 3D H (Three pole)

Type of mounting : Flush

Relay Type	Configuration	Case size	Cutout size (mm)	Bezel size (mm)
MCDG 11	O/C or E/F IDMT Relay	ID Vert.	150 (W)x 222 (H)	170 (W)x 233 (H)
MCDG21 Single pole	O/C or E/F IDMT + Highset			
MCDG31 Three pole	2 O/C + 1 E/F IDMT Relay	3D Horz.	435 (W) x 222 (H)	454 (W) x 235 (H)
MCDG61 Three pole	2 O/C + 1 E/F IDMT + Highset			
MCDAG 31 Three pole	2 O/C (IDMT) +1 E/F (Inst.)			
MCDAG 51 Three pole	2 O/C (Highset + IDMT) +1 E/F (Inst.)			



MEGAWIN

Megawin Switchgear P Ltd

P.O. Box No 434

Alagapuram Post

PerumalMalaiAdivaram

Salem, India -636004

For Further Details, Please Visit
www.megawinswitchgear.com

Regional Offices:

Delhi	+91 11 43048405
Mumbai	+91 22 27810301
Chennai	+91 44 24403569
Kolkata	+91 33 25551485
Bangalore	+91 80 22375520
Secunderabad	+91 40 40200154
Vadodara	+91 265 2351291
Bhopal	+91 9302065948
Pune	+91 20 26151097
Kochi	+91 484 2391255
Chattisgarh	+91 9329887414

For enquiries please Contact

info@megawin.co.in

salem@megawin.co.in

Ph: 91-427-2330498, 2332088

Fax : 91-427-2330502