



DG204A Combined Overcurrent&Earth Fault Relay

Features

- Microprocessor based numerical relay
- Current measurement based on fundamental frequency
- Low-set inverse definite time relay (IDT)
- High-set instantaneous relay
- Separate low-set and high-set trip indicators
- Option to disable high-set relay
- Front panel access to test function
- Complies with IEC 60255-26 standard

Technical Specifications

Ratings

- Rated current (I_n): 5 A
- Rated frequency: 50 Hz
- Burden: < 0.3 VA at I_n
- Thermal withstand: 4 x I_n continuous

Auxiliary Supply

- Model DG204A-240A: 198 ~ 265 V AC
- Model DG204A-110A: 94 ~ 127 V AC
- Supply frequency: 50 Hz
- VA rating: 3 VA typical

Setting Ranges

- Low-set ($I >$): 2.0 A to 6.0 A
: 40% to 120%
- Time multiplier (T_M) : 0.05 to 1.0
- High-set ($I >>$) : $I >$ to 10 x $I >$ or disable
- High-set delay time ($t >>$): Instantaneous

Contacts

- Trip contact (R1) : Manual reset type
- Contact Arrangement: Change-over
- Contact rating : 5 A, 250 V AC ($\cos\phi = 1$)
- Contact material : Silver alloy
- Expected electrical life: 100,000 operations at rated current
- Expected mechanical life: 5×10^6 operations

Indicator

- Auxiliary indicator:Green indicator
- Pick-up: Red indicator
- Trip: Red indicator

Performance

- Adjustable accuracy: Less than ±5%
- Repeatability: Less than 0.5% of full scale

Mechanical

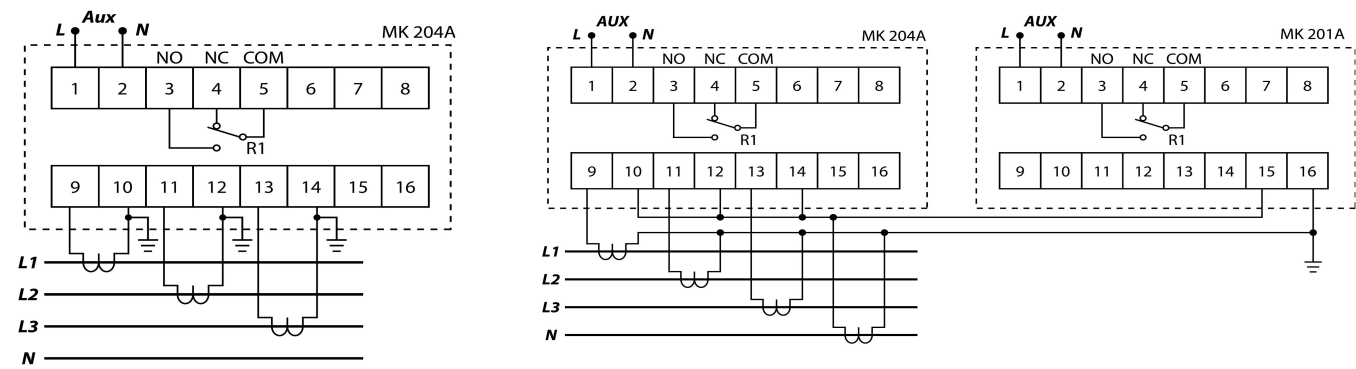
- Mounting: Panel mounting
- Front panel: Standard DIN 96 mm x 96 mm
- Approximate weight: 0.7 kg

Environment Conditions

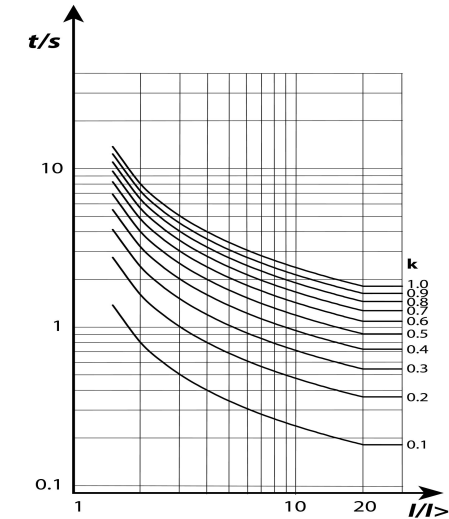
- Temperature: -5°C to +55°C
- Humidity: 56 days at 93% RH and 40°C non-condensing

Typical Application Diagram

Combined IDMT Overcurrent&Earth Fault Relay



Normal Inverse



Outline And Installation Dimensions

