Overcurrent Relay

PRODUCT OVERVIEW

Microprocessor based digital overcurrent relay using fundamental frequency current measurement for excellent harmonic current rejection. It consists of independent low-set and high-set elements.

The high-set element can be disabled by the user. The time current characteristics of the low set element are definite time or five selectable IDMT curves. The high-set element is a definite time or instantaneous relay.

The 4-digit panel allows the display of the preset load current; recorded fault current for the last trip; and all settings of the relay.

FEATURES

- Fascia mount
- Microprocessor based digital relay
- Current measurement based on fundamental frequency
- Three-phase, low-set overcurrent
- Three-phase, high-set overcurrent
- Local display of measured and set values
- Definite time for low-set and high-set
- Non-volatile fault value recording
- Programmable relay outputs
- Five selectable IDMT characteristic curves
- Complies with IEC 60255-26 standard

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
ME-OCR-DF-110A	For 50Hz system, auxiliary voltage 94~127V AC

***See Price List for CT's to suit OCR**

TECHNICAL DATA

RATINGS

Rated current (I_n) : 5 A
Rated frequency : 50 or 60 Hz
Burden : < 0.3 VA at I_n
Thermal withstand : 4 x I_n continuous

ACCURACY

Protection thresholds : ± 5%
Time delay : ± 5% with a minimum of 50 ms

INDICATORS

Auxiliary supply : Green indicator
Pick-up : Red indicator
Trip : 7-segment display and red indicators

AUXILIARY SUPPLY

Model ME-OCR-DF-110A : 94-127V AC
Supply frequency : 50Hz
VA Rating : 3 VA typical

OUTPUT CONTACTS (R1 & R2)

Rated voltage : 250 V AC / DC
Contact rating : 5 A
Expected electrical life : 100,000 operations at rated current
Expected mechanical life : 5 x 10^6 operations

ENVIRONMENTAL CONDITIONS

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

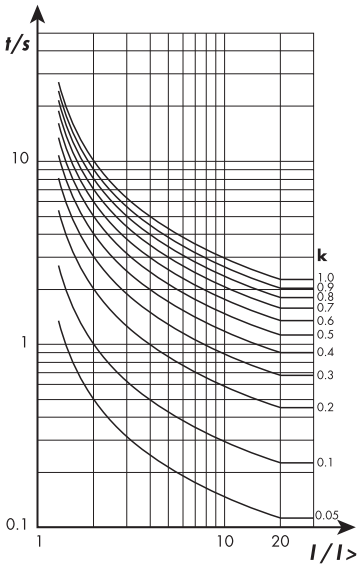
SETTING RANGES

Low-set (I >) : 0.5 A to 6.0 A, step 0.05 A / 10% to 120%, step 1%
Low-set time multiplier (kt >) : 0.05 to 1.0, step 0.01
Low-set definite time (t >) : 0.05 to 99 sec, step 0.01 (0.05 to 1.0) / 0.1 (1.1 to 99)
High-set (I >>) : 0.5 A to 99.9 A or disable, step 0.10 A / 10% to 1998%, step 2%
High-set delay time (t >>) : 0.05 sec to 2.5 sec, step 0.01

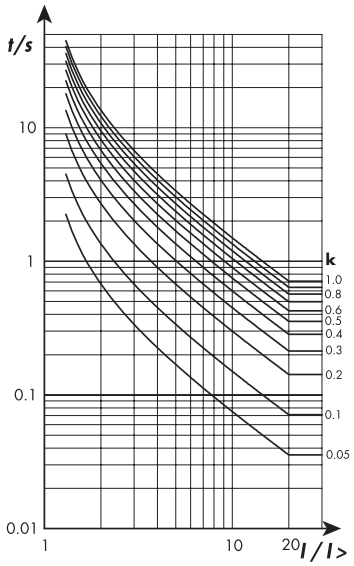
MECHANICAL

Mounting : Panel mounting
Dimension (mm) : 96(w) x 96(h) x 110(d)
Enclosure protection : IP54 at the panel
Approximate weight : 0.8 kg

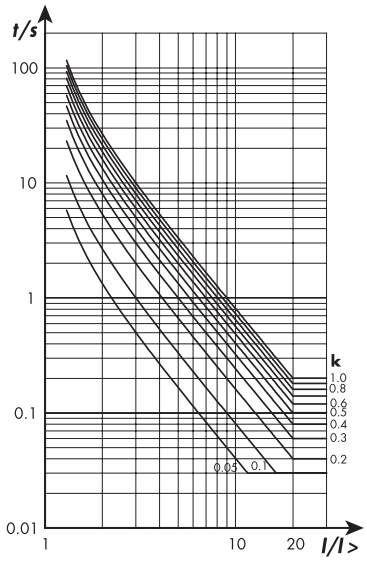
NORMAL INVERSE



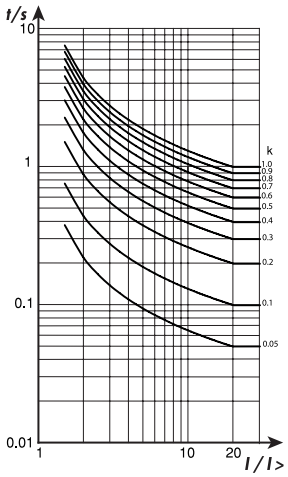
VERY INVERSE



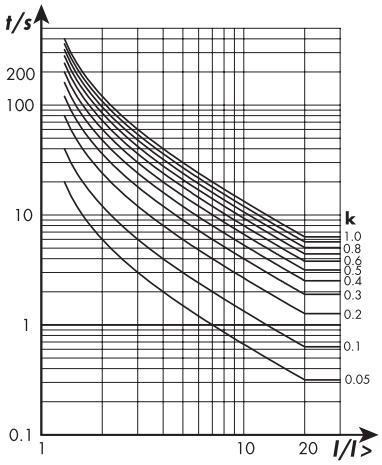
EXTREMELY INVERSE



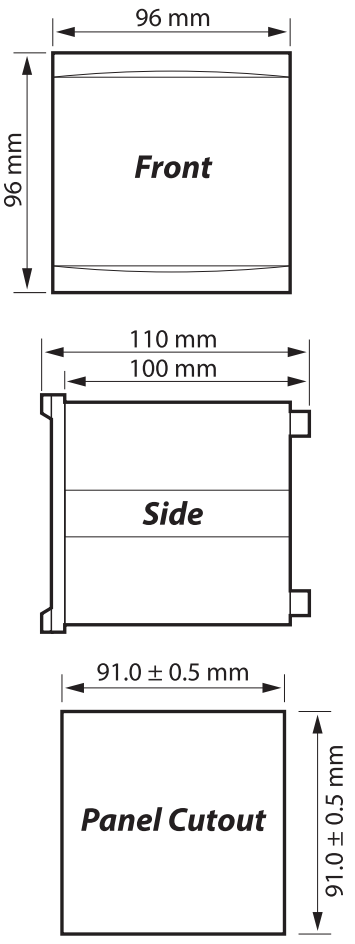
NORMAL INVERSE 1.3/10



LONG TIME INVERSE



CASE DIMENSIONS



TYPICAL APPLICATIONS DIAGRAM