OVERCURRENT RELAY

R204

FEATURES

- Three-phase, three-stage setting for phase overcurrent
- 5 selectable IDMT and definite times
- Thermal overload protection
- Cold load pickup protection
- Circuit breaker failure protection
- Selectable fundamental or true RMS measurement
- Selectable 50 or 60 Hz frequency
- Programmable output contacts
- Non-volatile fault values recording up to 3 records
- Complies with IEC 60255 standard
- ANSI code: 50P, 51P, CLP, 50BF, 49RMS

OVERCURRENT RELAY R204

SPECIFICATIONS

RATING

Rate Current In	: 5A
Frequency	: 50 or 60Hz
Burden	: <0.3VA at In
Thermal Withstand	: 4 x In Continuous

AUXILIARY SUPPLY

Supply Voltage	: 198 ~ 265VAC
Supply Frequency	: 50 or 60Hz
VA Rating	: 3VA max

ACCURACY

Protection Thresholds	: ±3% or ±20mA whichever is greater
Time Delay	: ±3% or ±40ms whichever is greater

SETTING RANGES

(i) Overcurrent Setting

3I>	: 0.5A -12.5A(10% -250%), *(Variable steps 1)
ktI>	: 0.01 -1.00, *(Variable steps 2)
tI>	: 0.03 -100s, *(Variable steps 2)
3I>Delay Type	: DT, NI3/10, NI1.3/10, VI, LI, EI
3I>>	: OFF/0.5 -100A (10% -2000%), *(Variable steps 1)
tI>>	: 0.03 -100s, *(Variable steps 2)
3I>>>	: OFF/0.5 -100A (10% -2000%), *(Variable steps 1)
tI>>>	: 0.03 -100s, *(Variable steps 2)

(ii) Thermal Overload Setting

θ>	: OFF/0.5A -10.0A (10% -200%), (step 0.05A)
Tθ	:1 to 200 minutes, (step 1min)
ktIθ>	:1.00 -1.50, (step 0.01)
θ Trip	: 50 to 200%, (step 1%)
θ Alarm	: 50 to 200%, (step 1%)

OUTPUT CONTACTS

Rated Voltage	: 250VAC
Continuous Carry	: 5A (Cosφ=1.0)
Expected Electrical Life	: 10^5 operations
Expected Mechanical Life	: 5 x 10^6 operations
No of Output Contact	: 2

ENVIRONMENTAL CONDITIONS

Operating Temperature	: -10°C to 55°C
Humidity	: 5% to 95%, non-condensing

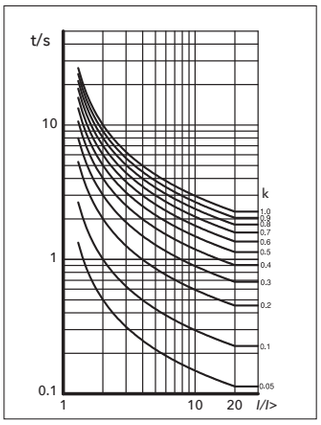
MECHANICAL

Mounting	: Panel mounting
Dimension (mm)	: 96(w) x 96(h) x 90(d)
Enclosure protection	: IP54 at the panel IP20 at the body
Approximate weight	: 0.80kg

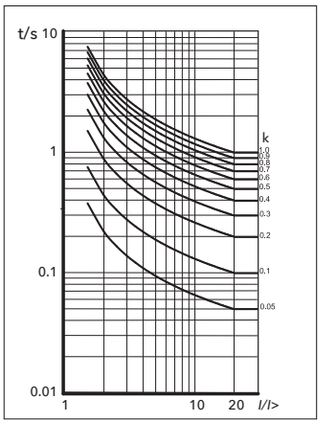
*Variable Steps 1: step 0.05 (<10), step 0.1 (<100)
*Variable Steps 2: step 0.01 (<1), step 0.1 (<10), step 0.5 (<100)

IDMT CURVE

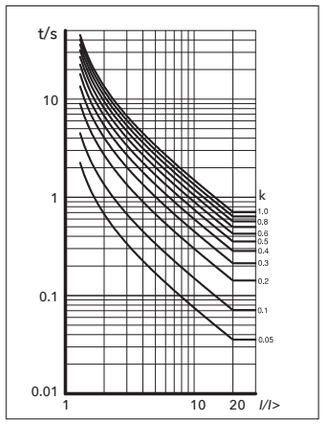
NORMAL INVERSE 3/10



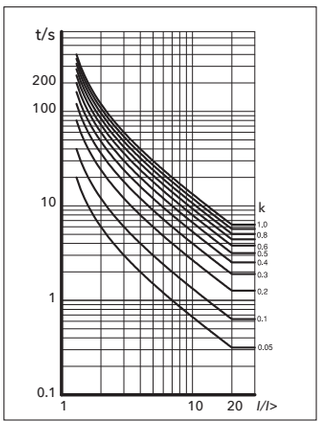
NORMAL INVERSE 1.3/10



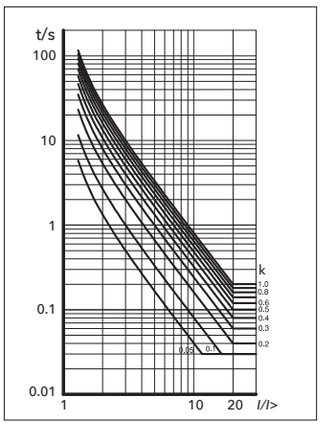
VERY INVERSE



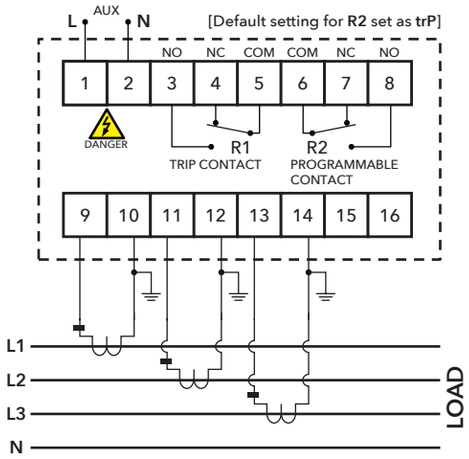
LONG-TIME INVERSE



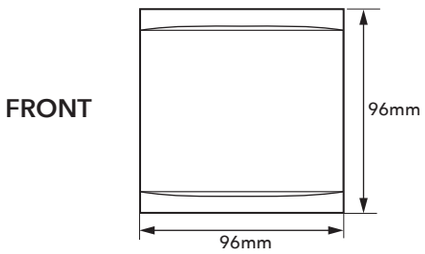
EXTREMELY INVERSE

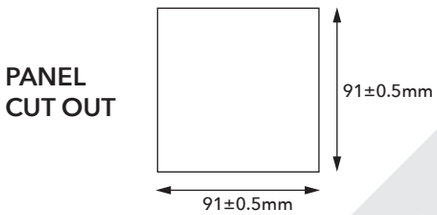


TYPICAL APPLICATION DIAGRAM



CASE DIMENSION





ORDERING INFORMATION

MODEL	DESCRIPTION
R204-230A	Auxiliary Voltage 198~265 V AC, frequency 50 or 60Hz