



GENERAL CHARACTERISTIC

Current relay with time-delay function is intended to use in protection systems. It allows to control the RMS value of sinewave of current with a frequency of 50 Hz. Digital technology provides high accuracy, stability and dependability.

Protection set

51 overcurrent, definite-time characteristic

Main features

- three phase measuring circuit
- possibility to work in one, two or three phase protection systems
- measuring and continuous displaying of energising value
- record of value of current during last disturbance
- binary input to block relay operation
- LED display and set of buttons in order to operation of the relay
- optical indicating (with LED diodes) of pick-ups and trips, external blocking signal, measuring circuits continuity and proper operation of relay
- Relay output for pick-up signalling purpose (K1) and trip (K2, K3), watchdog or lack of aux. voltage purpose (K4) or blocked mode signalling (K5)
- self-test of proper operation of relay
- relay enclosure gives possibility to mount on 35 mm rail, surface mount or flush mount

RIT-430A controls the RMS values of measuring currents, selects the maximum value and compares it with setting value of current, which is set by user. If one of measured values exceeds the setting value, the relay pick-ups and after set time-delay, the trip signal is generated. Operation of relay is blocked when blocking input (Ubl) is energised.

TECHNICAL DATA

Rated current I_n	1 A, 5 A, 1 A/5 A (settable)
Rated frequency f_n	50 Hz
Rated auxiliary voltage U_p	24 V, 48/60 V DC 110 V, 220 V DC 110 V, 230 V AC
Setting range of threshold current	0,05 – 5 I_n or 0,2 – 20 I_n
Accuracy of current input	2,5 %
Pick-up time	≤40ms
Setting range of timer	0 – 99,9s
Burden of analog inputs	≤0,5VA /input
Burden of auxiliary voltage supply	≤6W
Continuous thermal withstand of current input	2,2 I_n
1 sec thermal withstand of current input	80 I_n
Relay outputs data (K1, K2, K3)	
Continuous contact carry	5 A
Max. breaking capacity – resistive load	0,3 A
Max. breaking capacity – L/R ≤ 40 ms	0,12 A
Max. breaking capacity – for AC 250 V, 50 Hz	3 A
Relay outputs data (K4, K5)	
Continuous contact carry	5 A
Max. breaking capacity – resistive load	6 A / 28 V DC; 0,16 A / 220 V DC
Max. breaking capacity – for AC 250 V, 50 Hz	6 A
Operating temperature range	-5 ... 40 °C
Relative humidity (with no condensation)	≤ 80%
Ingress Protection	IP40
Weight	0,8 kg
Dimensions (width x height x depth)	100 x 75 x 120 mm
Electromagnetic compatibility acc. to	EN 50263
Insulation according to	EN 60255-5