CRCurrent injection relay tester



Description

The CR-50, CR-100 and CR-250 units include specially designed current generation systems that can check the current / time trigger curve of automatic switches and indirect protection relays.

Its operation principle is based on the injection of an alternating current that can be adjusted throughout the circuit being tested with a short-circuit cable loop. The connection of an auxiliary contact of the switch being tested can be used to measure the trip time for each current selected.

The test is easily carried out with a start-stop control. An automatic meter is responsible for taking the measurements and showing them on the display.

We can highlight that the unit can be used to check the full protection system, including the current transformer in the case of indirect relays, since the current can be injected on the primary side of these transformers.

After the test, a digital display automatically shows the value of the current injected and the trip time until the RESET button is pressed.

Features

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Power supply	230 Vac (-15 +10 %)	
Frequency	50 60 Hz	
Current generation system	Insulated, short-circuit potential, adjustable with the controls on the front of the unit	
Overload capacity	CR-50 : 1,5 <i>I</i> _n , 1 min (12 V max.) CR-100 : 2,5 <i>I</i> _n , 10 s (6 V max.) / 1,5 <i>I</i> _n , 1 min (12 V max.) CR-250 : 2,5 <i>I</i> _n , 10 s (6 V max.) / 1,5 <i>I</i> _n , 1 min (12 V max.)	
Nominal power	CR-50: 300 V·A CR-100: 600 V·A CR-250: 2 500 V·A	
Current	CR-50: 1.6 A max. CR-100: 6 A max. CR-250: 20 A max.	
Current generation system	CR-50 : 0 to 6 V: $I_n = 50$ A max. 0 to 30 V: $I_n = 10$ A max. CR-100 : 0 to 6 V: $I_n = 100$ A max. 0 to 30 V: $I_n = 20$ A max. CR-250 : 10 to 50 V: $I_n = 50$ A max. 0 to 10 V: $I_n = 250$ A max.	
Measurement		
Current measurement	digital instrument	
Accuracy	CR-50: 1 % of the reading / \pm 2 digits CR-100: 0.5 % of the reading / \pm 1 digits CR-250: 0.5 % of the reading / \pm 1 digits	
Time measurement	Digital clock	
Measurement range	CR-50: up to 99 999.9 s CR-100: up to 99,999.99 s CR-250: up to 99,999.99 s	
Test method	Start: with start button Automatic stop: aux. contact open or closedManual stop: with stop button	
Construction features		
Dimensions	CR-50 : 320 x 200 x 215 mm CR-100 : 430 x 312 x 265 mm CR-250 : 280 x 470 x 500 mm	
Weight	CR-50 : 11 kg CR-100 : 22 kg CR-250 : 43 kg	
Standards		
IEC 348, IEC 664, UNE 20 553, VDE 0110 (*also see the regulations to check the test methods)		

References

Description	Туре	Code
50 A relay check system (case version)	CR-50	P60211
100 A relay check system (case version)	CR-100	P60212
250 A relay check system	CR-250	P60213

