

Order Number

Serial Number

PRODUCT / TEST MANUAL

2C58K50

INSTANTANEOUS OVERCURRENT

Issue Level	Date	Summary of changes
B	17/05/1999	Initial issue.
C	28/08/2002	PCB was 660/093 (Section4.)
D	09/06/2004	Reformat of document

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1. DESCRIPTION OF RELAY

The 2C58K50 is a triple-pole single output instantaneous over current relay having less than 20ms operate and 15ms release times at 20X setting current. Heavy-duty output contacts capable of breaking 0.5A at 125V DC resistive are provided. Air-cored current transformers are used to enable fast operate times to be maintained regardless of previous current offsets which may have occurred.

2. SPECIFICATION

Auxiliary Supply Voltage	110V DC +20% -25%
Auxiliary Supply Burden (at 110V)	<4W output relay dropped out <15W output relay picked up
Nominal Input Current	1A
Sensing Supply Burden (at 1A)	<0.1VA
Nominal Setting Range	5% - 20% continuously variable
Number of Poles	3 (with common output)
Frequency Tolerance	-6% to +2% of 50Hz
Ambient Temperature Range	-5°C to 55°C
Accuracy	±5% of maximum setting
Dropout/Pickup Ratio	Not less than 85%
Withstand Current (independent of setting)	10A continuous 40A for 3 seconds
Operate Time	<20ms Symmetrical or fully offset
Release Time	<15ms Symmetrical or fully offset with current interruption at a zero current crossing

Output Relay Contact Ratings

Make and Carry Continuously

3000 VA AC resistive with maximums of 660 Volt and 12 Amp

3000 VA DC resistive with maximums of 660 Volt and 12 Amp

Make and Carry of 0.5 Second

7500 VA AC resistive with maximums of 660 Volt and 30 Amp

7500 VA DC resistive with maximums of 660 Volt and 30 amp

2. SPECIFICATION (Cont)

AC Break Capacity

3000 VA AC resistive with maximums of 660 Volt and 12 Amp

DC Break Capacity (Amps)

Voltage			24V	48V	125 V	250V
Resistive rating		a b	12 12	1.5 12	0.5 10	0.25 5
L/R=40 mS	Maximum break	a b	12 30	1 15	0.4 5.5	0.2 3.5
	1K operations (N3 Rating)	b	12	12	5	2.5

a = Without magnetic blowouts b = With magnetic blowouts

* As tested by Powernet Yarraville laboratories in Victoria.

3. VERIFICATION

This is to certify that the equipment has been manufactured, inspected and tested in accordance with a Quality System, which complies with the requirements of ISO9001: 2000.

Testing has been carried out against the declared performance specification 159-058-850 and in accordance with the relevant International (IEC) Standards.

PASSED BY	DATE

8. CONNECTION DIAGRAM

