

Order Number

Serial Number

## PRODUCT / TEST MANUAL

**2C58K55**

**INSTANTANEOUS OVERCURRENT**

<b>Issue Level</b>	<b>Date</b>	<b>Summary of changes</b>
B	10/07/2002	Initial issue.
C	14/04/2005	Document reformat

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ERL	DG	DG	

## 1. DESCRIPTION OF RELAY

The 2C58K55 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	5A
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 159-058-855 and in accordance with the relevant International (IEC) Standards.

PASSED BY	DATE

**8. CONNECTION DIAGRAM**

