

Order Number

Serial Number

PRODUCT/TEST MANUAL

3Y60K3

TWIN ELEMENT SHUNT FLAG

Issue Level	Date	Summary of changes
A	21/05/2002	Initial issue.

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Author	Checked & Registered	.pdf file created	Released
ERL	MW	MW	

1. BROAD DESCRIPTION OF RELAY

The 3Y60K3 is a dual element high speed relay with operate times less than 15 mS. A front panel LED indicates when the instantaneous output relay operates and remains illuminated until reset by the push button on the front panel.

2. SPECIFICATIONS

DC Auxiliary Supply	125 VDC -30% + 10%
Supply Burden (At 125V DC)	Less than 5 watts
Speed of operation	Less than 15 mS.
Overall Ambient Temperature Range	-5 to 55 deg C
Operation Indicator (Timed output)	LED
Operating Contacts	Three normally open + one normally closed

Output Relay Contact Ratings

Make and Carry Continuously

1700 VA AC resistive with maximums of 380 Volt and 8 Amp
 1700 VA DC resistive with maximums of 250 Volt and 8 Amp

AC Break Capacity

1700 VA AC resistive with maximums of 380 Volt and 8 Amp

Maximum Contact Capacity (Amps)

Voltage	DC			AC		
	30	125	250	110	220	250
Resistive	10	2.4	1.2	10	7	6.6
Inductive L/R 7 ms	7.5	1.8	.9	7.5	5	4.4

Operation Indicators

Hand resettable LED

Insulation Withstand

In accordance with AS2481-1981 (Clause 5-4), 2KV 50Hz between output and input. In Accordance with AS2481-1981 (Clause 5-4), 1.2/50 5KV.

Noise Immunity

The 3Y60K2 relay has been designed to withstand the high frequency interference test detailed in AS2481-1981 (Clause 5-5).

Case Type

2M

3. ASSOCIATED DRAWINGS

182-060-103 Wiring Diagram

4. TEST EQUIPMENT REQUIRED

- DC Auxiliary Supply
- Ammeter
- HV Test Equipment
- Electronic Counter (for measuring operate & release times)

5. HIGH VOLTAGE TESTING

- a) Apply 2KV RMS 50Hz between terminal Groups 1 and 2 in Table 1 for 1 minute.
- b) Apply three 3KV 1/50us pulses of each polarity between terminal Groups 1 and 2 in Table 1.
- c) Apply 1KV RMS 50Hz between the terminals for one minute in Table 2
- d) Apply three 3KV 1/50us pulses of each polarity between terminal Groups 1 and 2 in Table 3.
Note : This is across the auxiliary supply and the MOV will conduct.

TABLE 1

GROUP 1	GROUP 2
1 to8 All terminals	9 to 20 Frame

TABLE 2

GROUP 1	GROUP 2
9,10,13,14	11,12, 15,16

TABLE 3

GROUP 1	GROUP 2
1,2,5,6	3,4

6. TEST PROCEDURE

- a) Using a device for measuring operate time connect the auxiliary supply to relay 1
- b) Measure the operate time, this should be less than 15 ms, record results
- c) Repeat b) for relay 2

Nominal	Relay 1 15 mS	Relay 2 15mS
Actual	<input style="width: 100px; height: 15px;" type="text"/>	<input style="width: 100px; height: 15px;" type="text"/>

- d) Ensure that the operated burden of the relay is less than or equal to 5 Watts

Check

7. GENERAL & FUNCTIONAL

- a) Check that the rest buttons reset the LED indicators.
- b) Check that the relay is electrically sound and mechanically robust as per Standard Inspection & Test Schedule 903-000-026.

PASS

TESTED BY: _____ DATE: _____

8. CONNECTION DIAGRAM

