

# O/E/N 51 INDUSTRIAL CONTROL RELAY

- Optional Gold-plated Contacts for Safe Handling of Signal Loads
- Coils for DC or AC (50/60 Hz) Operation
- Mechanical Flag Indication
- LED Indication (optional)
- UL Approved (E209843)
- Lockable test button
- Manufactured in association with Tyco Australia
- Comply to IEC 60255-5

## SPECIFICATIONS

Contact Arrangement	: 2 Form C, 3 Form C
Contact Material	: Silver Alloy Optional Gold plating
Contact Rating	
Rated Voltage	: 230 VAC/24 VDC
Max. Switching Voltage	: 440 VAC/300 VDC
Max. Continuous Current at 230 VAC/24 VDC	: 10 A
Max. Power Rating	: 2500 VA
Nominal Coil Power	: 1.2 W (approx)
Life Expectancy	
Electrical	: 10 <sup>5</sup> operations
Mechanical	: 2x10 <sup>7</sup> operations
Contact Resistance (Initial)	: 50 milli Ohms
Dielectric Strength	
Between Contact & Coil	: 2500 VRMS
Between Open Contacts	: 1500 VRMS
Insulation Resistance	: 1000 MegaOhms at 500VDC, 25 <sup>o</sup> C, RH50
Operate time at Nominal Voltage	: 20 milli sec. (Typ)
Release time at Nominal Voltage	: 15 milli sec. (Typ)
	: 45 milli sec. (with diode)
Ambient Temperature	: -45 <sup>o</sup> C to +60 <sup>o</sup> C
Weight	: 80 gms (approx.)

### Typical applications

Industrial Controls, Instrumentation, PLC's, Automation etc.

**Note : In case of Relays with LED / diode, take terminal 2 as negative.**

All dimensions are in mm. Specifications subject to change without notice. Tolerance unless otherwise specified is ± 10%.

## COIL DATA

Nominal Voltage	DC		AC	
	Pick-up Voltage VDC	Coil Resistance Ohms ± 10%	Pick-up Voltage VAC	Coil Resistance Ohms ± 10%
6	4.5	32	4.8	5.3
12	9	110	9.6	24
18	15	390	15	40
24	18	475	19.2	86
48	36	2000	38.4	345
115	90	10000	90	2000
230*	165	40000	176	8200

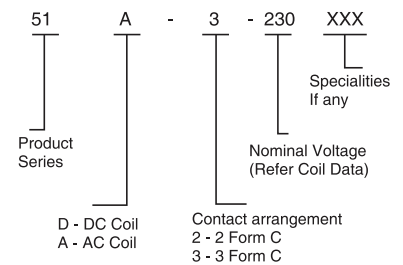
\* 220V for DC & 230V for AC Coils

## SOCKET ORDERING CODE

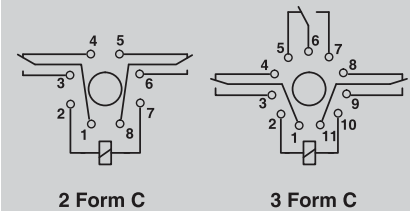
### Din rail mounting type

2 Form C Relay	31 - 4200 - 100
51 - 3000 - 200	
3 Form C Relay	31 - 4300 - 100
51 - 3000 - 300	

## HOW TO ORDER



## WIRING DIAGRAM



## DIMENSIONS

