



## SPECIFICATIONS

|                                        |                                         |
|----------------------------------------|-----------------------------------------|
| Contact Arrangement                    | : 2 Form C, 3 Form C                    |
| Contact Material                       | : Silver Alloy<br>Optional Gold plating |
| Contact Rating                         |                                         |
| Rated Voltage                          | : 230 VAC/ 24 VDC                       |
| Max. Voltage                           | : 440 VAC/300 VDC                       |
| Max Continuous Current at 230VAC/24VDC | : 10 A                                  |
| Max. Switching Current                 | : 20A (Max. 4S. at duty Cycle <10%)     |
| Rated Breaking Capacity (AC)           | : 2500 VA                               |
| Nominal Coil Power                     | : 1.2 Watts/2.3 VA                      |
| Life Expectancy                        |                                         |
| Electrical                             | : $10^5$ operations on rated load       |
| Mechanical                             | : $2 \times 10^7$ operations            |
| Contact Resistance                     | : 50m Ohms Max. (Initial)               |
| Dielectric Strength                    |                                         |
| Between Open Contacts                  | : 1500 VRMS                             |
| Between Adjacent Poles                 | : 2500 VRMS                             |
| Between Contact and Coil               | : 2500 VRMS                             |
| Insulation Resistance                  | : 1000M Ohms @ 500VDC, 25°C, RH50       |
| Operate time at Nominal Voltage        | : 12 milli sec. (Typ) (Excl. Bounce)    |
| Release time at Nominal Voltage        | : 5 milli sec. (Typ) (Excl. Bounce)     |
| Bounce time                            | : 4 milli sec. Approx.                  |
| Ambient Temperature                    | : -45°C to +60°C                        |
| Weight                                 | : 80 gms Approx                         |
| Type of Mounting                       | : Socket Mounting.                      |

### Typical applications

Industrial Controls, Instrumentation, PLC's, Automation

**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  $\pm 10\%$

# O/E/N 51

## INDUSTRIAL CONTROL RELAY

- 2 / 3 Form C
- High-Quality Contact Material for 10 A Rated Current
- 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)
- Lockable test button
- Manufactured in Association with Tyco, Austria

## COIL DATA

| Nominal Voltage | DC                  |                                 | AC                  |                                 |
|-----------------|---------------------|---------------------------------|---------------------|---------------------------------|
|                 | Pick-up Voltage VDC | Coil Resistance Ohms $\pm 10\%$ | Pick-up Voltage VAC | Coil Resistance Ohms $\pm 10\%$ |
| 6               | 5.0                 | 30                              | 5.0                 | 4                               |
| 12              | 10.0                | 150                             | 10.0                | 16                              |
| 18              | 15.0                | 390                             | 15.0                | 40                              |
| 24              | 20.0                | 500                             | 20.0                | 70                              |
| 48              | 40.0                | 2250                            | 40.0                | 300                             |
| 115             | 90.0                | 10000                           | 90.0                | 2000                            |
| 230*            | 190.0               | 40000                           | 190.0               | 10000                           |

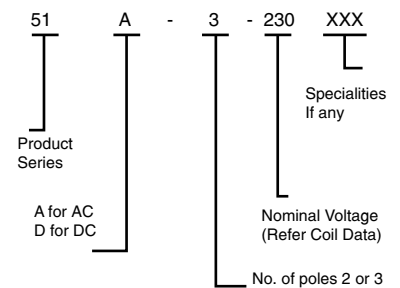
\* 220V for DC & 230V for AC Coils

## SOCKET ORDERING CODE

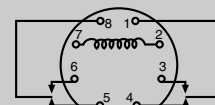
### Din rail mounting type

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

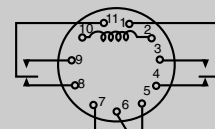
## HOW TO ORDER



## WIRING LAYOUT

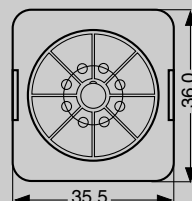
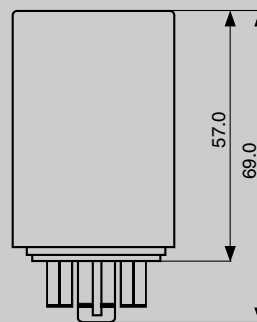


USE WITH 8 PIN SOCKETS



USE WITH 11 PIN SOCKETS

## DIMENSION



Top View

