



O/E/N 51

INDUSTRIAL CONTROL RELAY

- Push-to-test-button (may be locked on by means of a key)
- Universal Socket
- 2 or 3 C/o
- 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)

SPECIFICATIONS

Contact Arrangement	: 2 Form C, 3 Form C
Contact Material	: Silver Cadmium oxide Optional Gold plating
Contact Rating	
Rated Voltage	: 230 VAC/ 24 VDC
Max. Voltage	: 440 VAC/300 VDC
Max Continuous Current at : 10 A 230VAC/24VDC	
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 (refer graph)
Mechanical	: 2x10 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

All dimensions are in mm. Specifications subject to change without notice.

COIL DATA

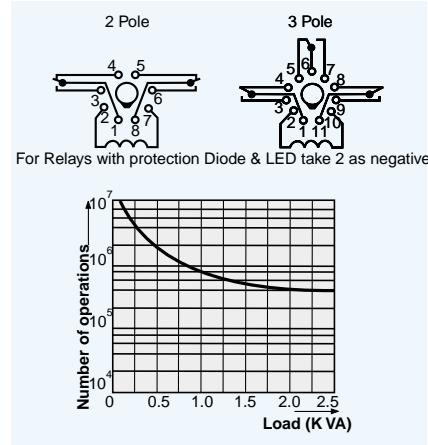
Nominal Voltage	Pick-up Voltage (Max)	Drop-out Voltage (Min)	Coil Current	DC-Version	
				Coil Resistance	
VDC	VDC	VDC	mA	Ohms	
6	4.5	0.6	187.5	32 ±10%	
12	9.0	1.2	109.1	110 ±10%	
24	18.0	2.4	50.5	475 ±10%	
48	36.0	4.8	24.0	2000 ±10%	
60	45.0	6.0	21.1	2850 ±10%	
110	82.5	11.5	11.0	10000 ±12%	
220	165.0	22.0	5.5	40000 ±15%	

All figures are given for cold (at ambient temperature + 20 °C)

VAC	VAC	VAC	mA	AC-Version	
				Ohms	
6	4.8	2.4	381.7	5.3±10%	
12	9.6	4.8	182.5	24.0±10%	
24	19.2	9.6	94.2	86.0±10%	
48	38.4	19.2	47.5	345.0±10%	
60	48.0	24.0	37.8	544.0±10%	
115	92.0	46.0	20.0	2000.0±10%	
240	192.0	96.0	9.8	10000.0±10%	

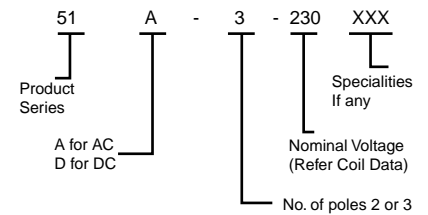
All figures are given for cold (at ambient temperature + 20 °C)

WIRING LAYOUT

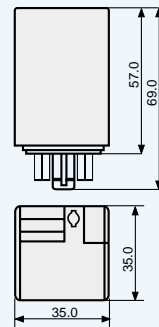


For Relays with protection Diode & LED take 2 as negative

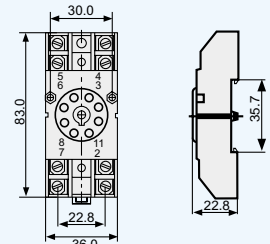
HOW TO ORDER



DIMENSIONS

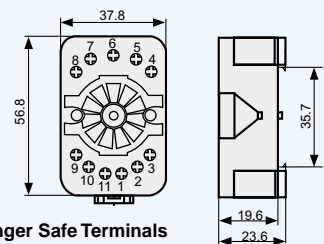


SOCKETS



(With Screw Terminals for loose wires or spade Terminations)

• 8 Pins : 51 - 3000 - 200



Finger Safe Terminals

- 8 Pins : 31 - 4200 - 100
- 11 Pins : 31 - 4300 - 100