Excellent Integrated System Limited

Stocking Distributor

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TE Connectivity Potter & Brumfield Relays 19022B2U0

For any questions, you can email us directly: sales@integrated-circuit.com



Distributor of TE Connectivity Potter & Brumfield Relays: Excellent Integrated System Lir

Datasheet of 19022B2U0 - RELAY GEN PURPOSE DPDT 2A 12V

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

tyco Catalog 1308242 Issued 3-03 Electronics

P&B



190 series

2 Amp, DPDT, High Sensitivity, DIP PC Board Relay

FII File E55708 (File LR73303)

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Coil Data @ 23°C

Nominal	Current	Maximum	Resistance	Approx.	
Voltage	±10%	Voltage	±10%	Power	
(VDC)	(mA)	(VDC)	(Ohms)	(mW)	
Standard sensitivity (Max. Voltage stated @ 65°C, except 48V @ 60°C)					
3	166.7	3.6	18	500	
5	100.0	6.0	50	500	
6	83.3	7.2	72	500	
9	55.6	10.8	162	500	
12	41.7	14.4	288	500	
24	20.8	28.8	1,152	500	
48	12.0	52.8	4,000	580	
High se	High sensitivity (Max. Voltage stated @ 70°C)				
3	120.7	3.6	25	360	
5	72.0	6.0	70	360	
6	60.0	7.2	100	360	
9	40.0	10.8	225	360	
12	30.0	14.4	400	360	
24	15.0	28.8	1,600	360	
48	7.5	52.8	6,400	360	
Ultra high sensitivity (Max. Voltage stated @ 70°C)					
3	50.0	4.5	60	150	
5	30.0	7.5	167	150	
6	25.0	9.0	240	150	
9	16.7	13.5	540	150	
12	12.5	18.0	960	150	
24	8.3	36.0	2,880	200	
48	6.25	72.0	7,680	300Ap	

Features

- Standard DIP configuration mates with 16-pin socket.
- Meets FCC Part 68 (10/160μs).
- · For applications in telecommunications, office automation, security devices, measurement and control equipment
- Immersion cleanable, plastic sealed case.
- · Standard, high and ultra-sensitive coils
- Ultrasonic cleaning not recommended.

Contact Data @ 23°C

Arrangement: Bifurcated 2 Form C (DPDT) contacts.

Material: Stationary: Silver, gold clad. Ratings: Max. Switched Current: 2A. Max. Carry Current: 2A

Max. Switched Voltage (at nom. voltage): 125VDC, 125VAC.

Max. Switched Power: 60W DC or 62.5VA AC. Min. Switching Load: 10µA, 10mVDC

Rated Load: 500mA at 125VAC Initial Contact Resistance: 50 milliohms

Expected Mechanical Life: 15,000,000 ops at 36,000 ops/hr.

Initial Dielectric Strength

Between Open Contacts: 750VAC 50/60 Hz. for 1 minute. Between Coil and Contacts: 1,000VAC 50/60 Hz. for 1 minute.

Between Poles: 1,000VAC 50/60 Hz. for 1 minute. Surge Voltage Resistance per FCC 68 (10 / 160 µs):

Between Open Contacts: 1,500V Between Coil and Contacts: 1,500V

Between Poles: 1,500V

Operate Data @ 23°C

Operate Voltage: 75% of nominal voltage. Release Voltage: 5% of nominal voltage. Operate Time: 7 ms, max. (3.5 ms, mean). Release Time: 3 ms, max. (0.8 ms, mean). Operate: 0.5 ms, approx. Bounce Time: Release: 3.5 ms, approx.

Operating Frequency: Mechanical: 36,000 ops/hr.
Electrical: 1,800 ops/hr at rated load.

Initial Insulation Resistance

Between Contact and Coil: 109 ohms or more @ 500VDC.

Environmental Data

Temperature Range: -40°C to +70°C. Relative Humidity Range: 35% to 85%. Shock: Functional: 200m/s² (approx. 10g)

Destructive: 1,000m/s² (approx. 100g).

Vibration: 10-55 Hz., .059 in (1.5 mm) double amplitude.

Coil Data @ 23°C

Voltage: 3 to 48VDC

Nominal Power: 150mW to 580mW. See Coil Data table for details.

Duty Cycle: Continuous.

Mechanical Data

Termination: DIP compatible, printed circuit terminals. Enclosure Type: Immersion cleanable plastic case

Weight: 0.21 oz. (6g) approximately.

Distributor of TE Connectivity Potter & Brumfield Relays: Excellent Integrated System Lir

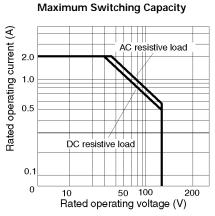
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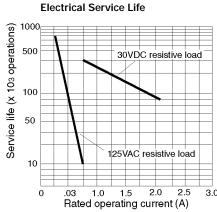
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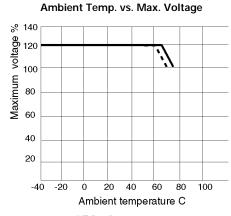
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Operational Performance Curves

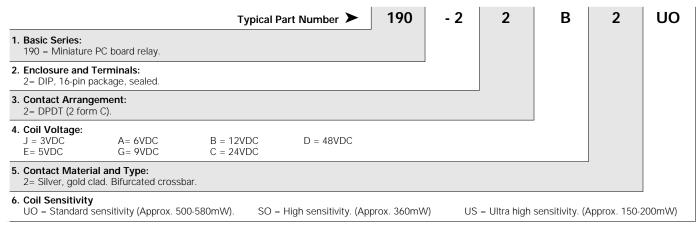






48 VDC coil
All other voltages

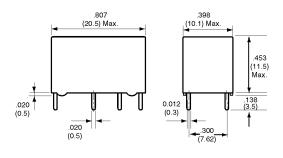
Ordering Information



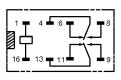
Our authorized distributors are more likely to stock the following items for immediate delivery.

190-22B2UO 190-22C2UO 190-22E2UO

Outline Dimensions



Wiring Diagram (Bottom View)



PC Board Layout (Bottom View)

