

FRA9T RELAY



H-Bridge Motor Reversing Relay

FEATURES

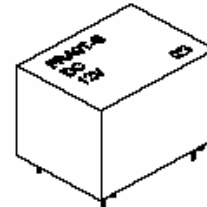
Small size & light weight

H Bridge motor reversing arrangement

Switching capacity up to 20A

Use for power window, power sunroof, etc.

Sealed type is available.



SPECIFICATIONS

COIL RATING (At 20°C)

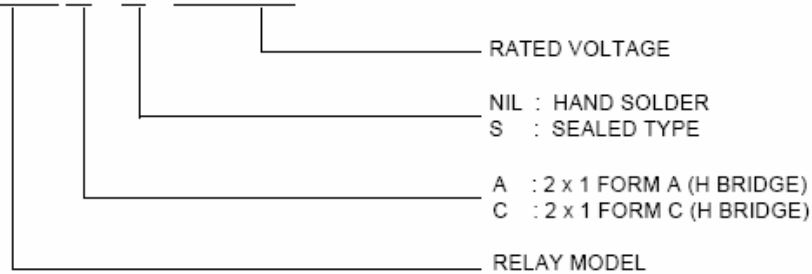
RATED VOLTAGE (V DC)	COIL RESISTANCE (Ω +/- 10 %)	MUST OPERATE VOLTAGE (V DC)	MUST DROPOUT VOLTAGE (VDC)	ALLOWABLE VOLTAGE RANGE (VDC)	POWER CONSUMPTION (W)
		% OF RATED VOLTAGE (AT +20°C)			
12	225	60 Max.	8 Min.	130	0.64

CHARACTERISTICS

Contact Arrangement	2 X 1 FORM C (H Bridge)
Contact Material	Silver Alloy
Contact Resistance	50m Ω Max.
Contact Rating (Resistive Load)	20A 14VDC
Switching Power	280W
Switching Voltage	16VDC
Operate Time (Initial)	10ms Max.
Release Time (Initial)	10ms Max.
Insulation Resistance	100M Ω Min. (At 500V DC)
Dielectric Strength	1000VAC (50Hz/min) between open contacts 1000VAC (50Hz/min) between coil and contacts
Shock Resistance	98m/s ² (10g) Min. (Functional) 980m/s ² (100g) Min. (Destructive)
Vibration	4.5g Approx. 10 to 100Hz
Ambient Temperature	-40°C to +85°C
Humidity	40 to 85% RH
Operation Life	Mechanical : 10 ⁶ Electrical : 2 x 10 ⁵ (7A 14VDC Inrush 30A - Motor Load) : 5 x 10 ⁴ (20A 14VDC - Motor Load)
Weight	15g Approx.

ORDERING INFORMATION

FRA9T C - S DC 12V



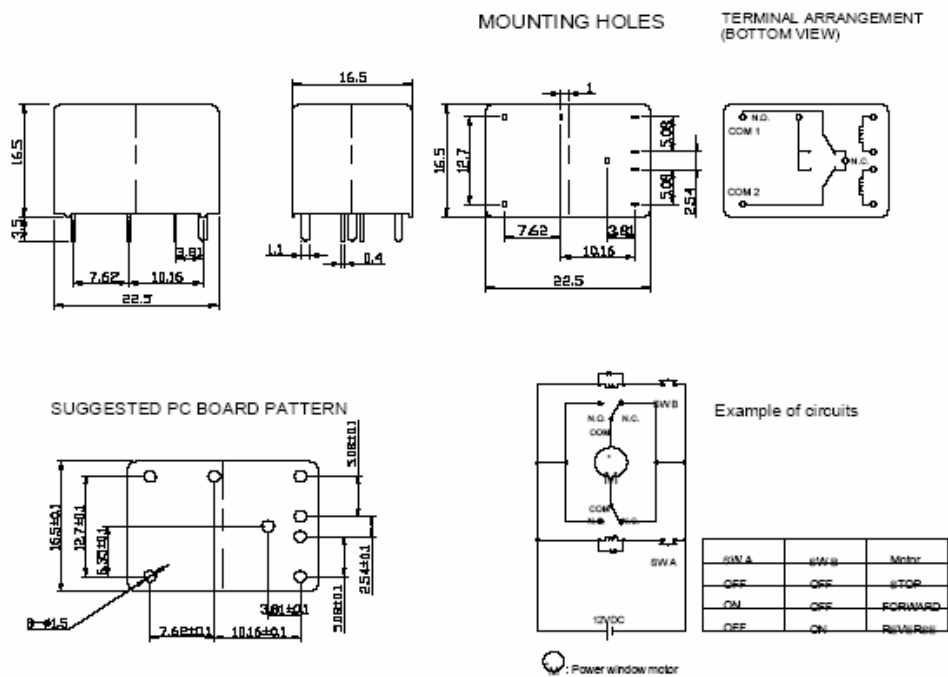
Note : Pb-Free and RoHS compliant relays are available.

For ordering, please add suffix "Pb-Free" or "RoHS" to standard relay part numbers.

For example : FRA9TC-S DC 12V "Pb-Free" for Pb-Free Relay

For example : FRA9TC-S DC 12V "RoHS" for RoHS Compliant Relay

DIMENSIONS (UNIT:mm)



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