#### 查询"740-12-1C-2SAE"供应商



# ●/E/N 74 AUTOMOTIVE POWER RELAY

#### **FEATURES**

- High performance
- 6.3mm Flat Terminals
- Current rating up to 40A
- Suitable Couplers available
- Optional Sealing

#### **APPLICATION**

- Horn Control
- Starter Motors
- Defogger
- Radiator Fan
- A/C Controls
- Security Systems

## **TECHNICAL DATA FOR CONTACT SIDE:**

Model	:	74	74-SC	
Areas of Application		RESISTIVE / INDUCTIVE/H	RESISTIVE / INDUCTIVE/HEAD LAMP/CAPACITIVE LOADS	
Contact Configuration	:	1A/1C	1A/1C	
Contact Material	:	Silver Nickel	Silver Nickel / Silver Tin Oxide*	
Contact Rating at 23°C - 12VDC (Res.)	NO :	30	40	
	NC :	20	30	
Electrical Life Operations Min.	97	2 x 10⁵	2 x 10 <sup>5</sup>	
Mechanical Life Operations Min.	MANA	1 x 10 <sup>6</sup>	1 x 10 <sup>6</sup>	
Contact Voltage Drop at 10 A (Min)	:	50mV	50mV	
Maximum Switching Current @ 12.8 VDC For 3 Sec.	:	120A	150A	

<sup>\*</sup>Under introduction

#### **GENERAL DATA FOR COIL SIDE**

Nominal Coil Power : 1.6W (Approx)

Operating Power : 1.8W (Approx)

Operate Time\*\* : 15 milli Seconds

Release Time\*\* : 15 milli Seconds

#### **OPERATING CONDITIONS**

Ambient Temperature : -30°C to +85°C

Insulation Resistance : 100 Meg. Ohms Min. At 500 VDC,

25°C RH 50

Vibration Resistance (without change

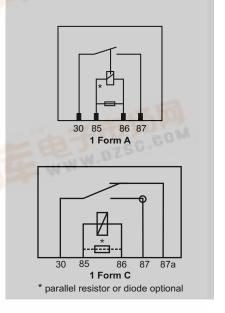
in the switching state  $> 10\mu$ S)

10-2000Hz 4.4g

Shock Resistance (without change : 30g, 8mS in the switching state>10µS)

**O/E/X** India Limited

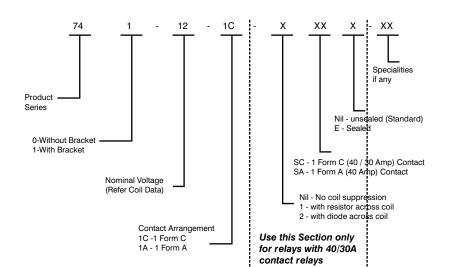
#### CIRCUIT DIAGRAM



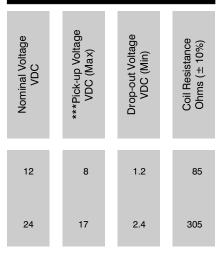


<sup>\*\*</sup> At nominal voltage without coil suppression (excluding bounce)

#### **HOW TO ORDER**

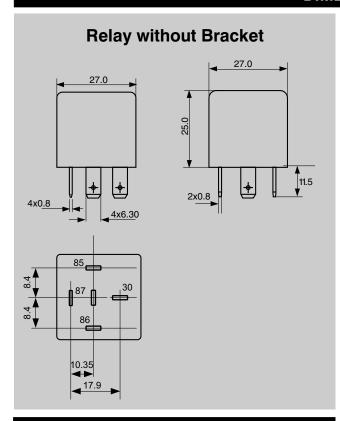


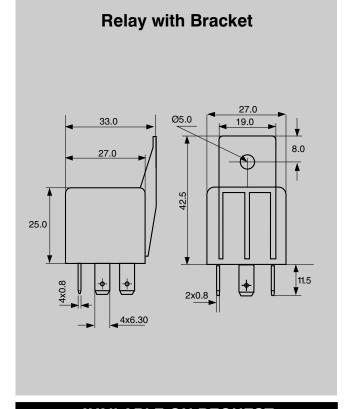
#### **COIL DATA**



<sup>\*\*\*</sup>Lower pick-up Voltages available on request

#### **DIMENSIONS**





#### **MECHANICAL DATA**

**COVER RETENTION** 

Pull : 20KgF
Push : 20KgF

TERMINAL STRENGTH

Pull : 10KgF
Push : 10KgF

#### **AVAILABLE ON REQUEST**

- High temperature winding wire
- Special Contact arrangements
- Special coil resistance & pick-up
- Resistor/Diode across coil
- For other custom solutions consult factory

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DATA ON VARIOUS TESTS CONDUCTED FOR OPERATING CONDITIONS				
TEST	TEST CONDITION	RESULT		
	Relay kept at 100 <sup>0</sup> C			
	Coil Voltage : 14 VDC	Relays successfully completed 100000 operations at given load		
Continuous Energisation test at	Load given : 25 A @ 12 VDC			
Extreme temperature Conditions	Duration : 5 Sec. On, 5 Sec. OFF			
	No. of operation : 50000			
	The above test repeated at - 30°C for 50000 operations			
	Relay subjected to :-			
	-30°C to + 100°C in 2 Hrs. with coil ON			
Thormal avaling	+100 <sup>0</sup> C for 2 Hrs. with coil ON	All apprehing payameters within		
Thermal cycling	+100°C to - 30°C in 2 Hrs. with 1 Hrs. Coil ON & 1 Hrs. Coil OFF	All operating parameters within the specifications after test		
	-30 <sup>0</sup> C for two Hrs. with Coil ON			
	No. of Cycles : 3			
	Relay is subjected to :-			
	Max. Voltage : 100VDC	After the test, all operating parameters of the relay are within specification.		
Shook Voltage	Shock Wave : Exponential Damping vibration			
Shock Voltage	Time : 500 micro Sec.			
	Period : 30 Sec.			
	Test Time : 10 Hrs.			
Dropping Impact	Relays dropped from a height of 1 Meter to a concrete floor	No change in operating parameters of the relay.		
Jump Start	24 VDC for 1 minute conducting nominal current at 23°C	Withstood successfully		
Corrosion Resistance	5% Sodium Chloride solution applied to relay for 48 Hrs.	No damage to relay parts		
	Horizontal Plane:23rev. / Min.	No water ingression inside the relay		
Water Resistance test	Water Pressure:0.03 Mpa			
	Test time:10 Min			

<sup>\*</sup>Typical values for relays with 12 VDC coil. For higher severity please consult factory

## **OPTIONAL SPECIAL CIRCUITRY**

