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Jameco Part Number 171460



Relays



- ☐ Data Group: 648
- ☐ SKU: 1411045
- ☐ Weight (Kg): 1.0000
- ☐ Description: LD1A-12F
- ☐ HS Code:
- ☐ Applications: Automotive Relays

MFG Model

LD-B

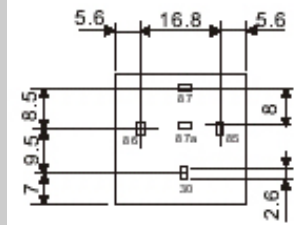
Size

28 x 28 x 25 mm

Connection Diagram Image



Dimensions



Contact Arrangement

1PST/1PDT

Contact Rating AC ; DC

DC 12V 40A

Coil_Voltage

DC 12V~24V

Coil_Power

1.8W

Break Down Voltage Between Contacts

AC 500V

Break Down Voltage Between Elements

AC 1,000V

Insulation_Resistance

DC 500V 100MOhms

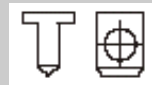
Life_min_Operation_Mechanical

 10^5

Life_min_Operation_Electrical_At Rated_Load

 10^7

Terminal_Shape



Approximate_Weight

32g

Safety_Standard_Approval



LD SERIES

FEATURES

- 40A switching use relay at ambient temperature of 80°C
- Solder lug (quick connect) and PCB terminals are available for customer's selection.
- Contact form: 1 form C, 1 Form B, 1 Form A, and 2 Form A
- Using at automotives, direct connection with cell motors, transmission, and anti-locking braking system.



ORDERING INFORMATION

LD — 12 F

1 2 3 4 5

1. Type

2. Contact Arrangement

Nil : 1 Form C
1A : 1 Form A
1B : 1 Form B
2A : 1PDM

3. Coil Nominal Voltage

4. Cover Type

F : Cover for Steel Bracket
P : Cover for Plastic Bracket
B : Plastic Cover

5. Terminal Type

Nil : Standard Type
P : PCB Terminal

5. Special Mark

Nil : Standard Type.

R1 : Coilparallel with 1/2Wresistor 680Ω for 12VDC, 2700Ω for 24VDC.

R2 : Coilparallel with 1/2Wresistor 820Ω for 12VDC, 3200Ω for 24VDC.

D1 : Coilparallel with diode 1N4007 the Positivepole "+" on # 85 terminal.

D2 : Coilparallel with diode 1N4007 the Negativepole "-" on # 85 terminal.

D3 : Coilparallel with diode 1N4004 the Positivepole "+" on # 85 terminal.

D4 : Coilparallel with diode 1N4004 the Negativepole "-" on # 85 terminal.

CONTACT RATING

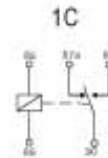
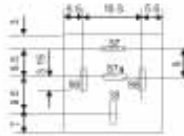
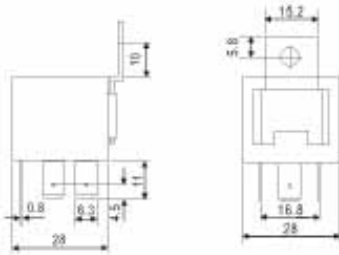
1PDT	Resistive (Cos. = 1)	DC 12V	40A/30A
1PST-DM	Resistive (Cos. = 1)	DC 12V	2 x 20A

COIL DATA(1.8W, at 25°C)

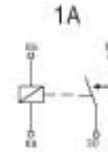
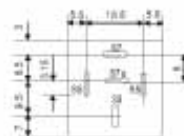
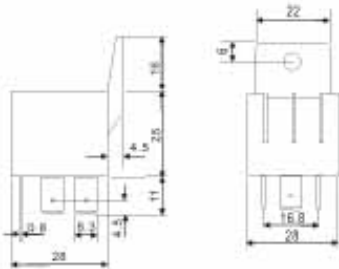
Coil Nominal Voltage (VDC)	Resistance Tol.±10% (Ohms)	Nominal Current (mA)	Maximum Pick Up Voltage (V)	Minimum Drop Out Voltage (V)
12	80	150	7.8	1.2
24	320	75	17.0	2.4

WIRING DIAGRAM
(BOTTOM VIEW)

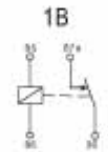
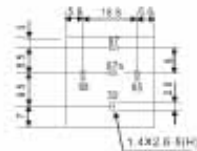
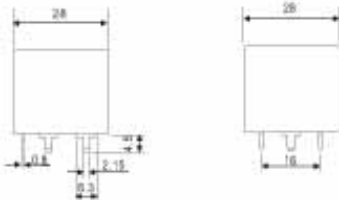
F TYPE



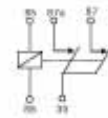
P TYPE



B TYPE



2A



Insulation Resistance	50 M Min. (DC 500V)
Dielectric Strength	500 VAC, 50/60Hz between contact.
	1,000 VAC, 50/60Hz between all elements.
Contact Material	Silver- Cadmium Oxide as standard.
Contact Resistance	100 milliohms max. (initial value)
Shock Resistance	Malfunction: 10G(11ms) ; Destructive: 100G(6ms)
Vibration Resistance	Malfunction: 10 to 55 Hz. at Double Amplitude of 1.5 mm
	Destructive: 10 to 55 Hz. at Double Amplitude of 1.5 mm
Operation Time	10 ms max.
Release Time	10 ms max.
Temperature Range	- 40°C ~ + 85°C
Expected Life	With operation rate 30/min.
	Mechanical - 1,000,000 operations min.
	Electrical - 100,000 operations min. at rated load.
Weight	38 grams

