

FEATURES

- 40A switching use relay at ambient temperature of 80
- 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

LDN — 12 F

1 2 3 4 5 6

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

6. Special Mark

Nil : Standard Type.

R1 : Coil parallel with 1/2W resistor 680Ω for 12VDC, 2700Ω for 24VDC.
 R2 : Coil parallel with 1/2W resistor 820Ω for 12VDC, 3200Ω for 24VDC.
 D1 : Coil parallel with diode 1N4007 the Positive pole "+" on # 85 terminal.
 D2 : Coil parallel with diode 1N4007 the Negative pole "-" on # 85 terminal.
 D3 : Coil parallel with diode 1N4004 the Positive pole "+" on # 85 terminal.
 D4 : Coil parallel with diode 1N4004 the Negative pole "-" on # 85 terminal.

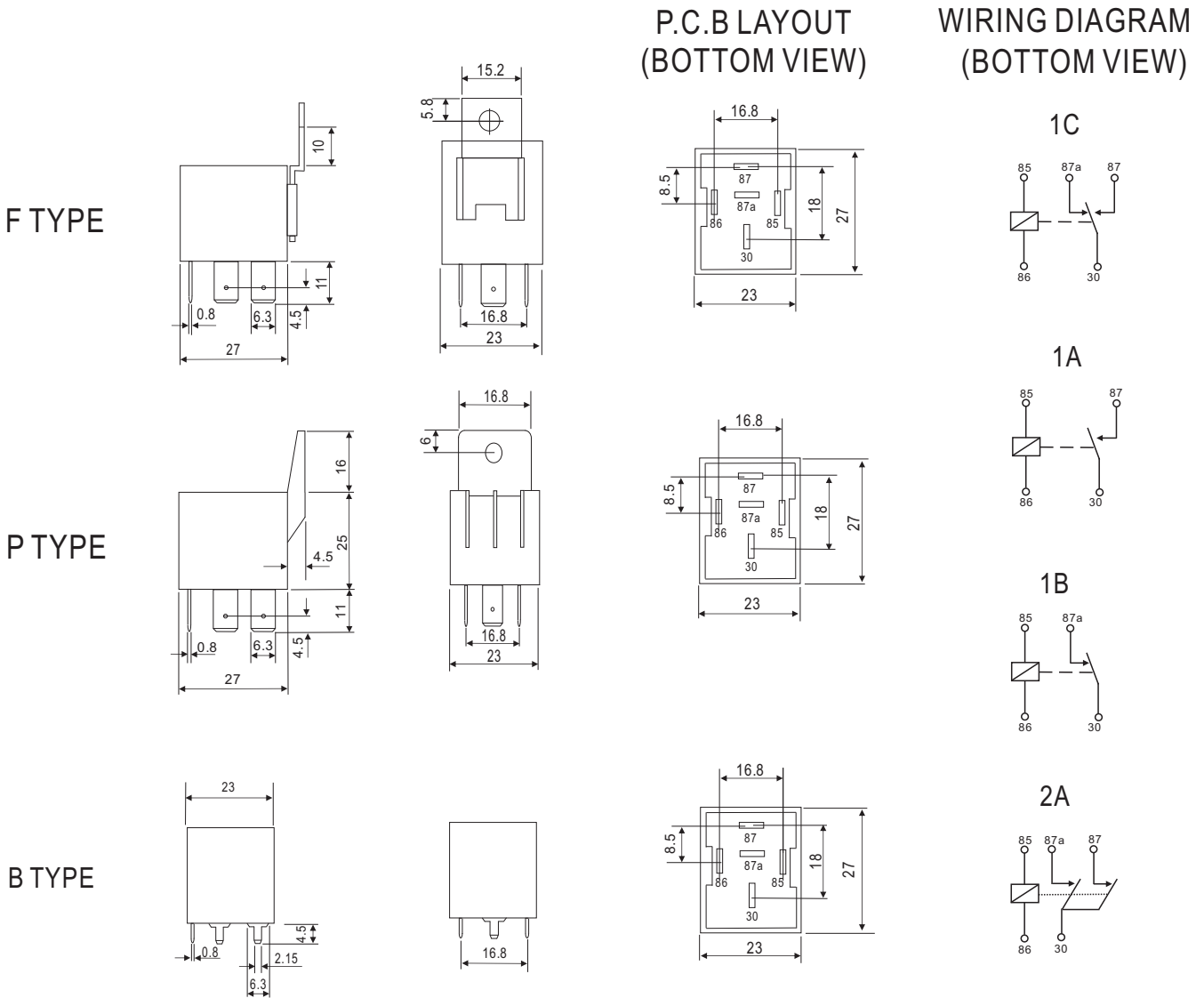
CONTACT RATING

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

DIMENSIONS(mm)



GENERAL DATA

Insulation Resistance	50 MΩ 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