

## 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                | 3. Coil Nominal Voltage       | 6. Special Mark  |
| 2. Contact Arrangement | 4. Cover Type                 | Nil : Standard Type.   |
| Nil : 1 Form C         | F : Cover for Steel Bracket   | R : Coil parallel with 1/2W resistor 820Ω for 12VDC, 3200Ω for 24VDC.        |
| 1A : 1 Form A          | P : Cover for Plastic Bracket | D1 : Coil parallel with diode 1N4007 the Positive pole "+" on # 85 terminal. |
| 1B : 1 Form B          | B : Plastic Cover             | D2 : Coil parallel with diode 1N4007 the Negative pole "-" on # 85 terminal. |
| 2A : 1PDM              | 5. Terminal Type              |  |
|                        | Nil : Standard Type           |  |
|                        | P : PCB Terminal              |  |

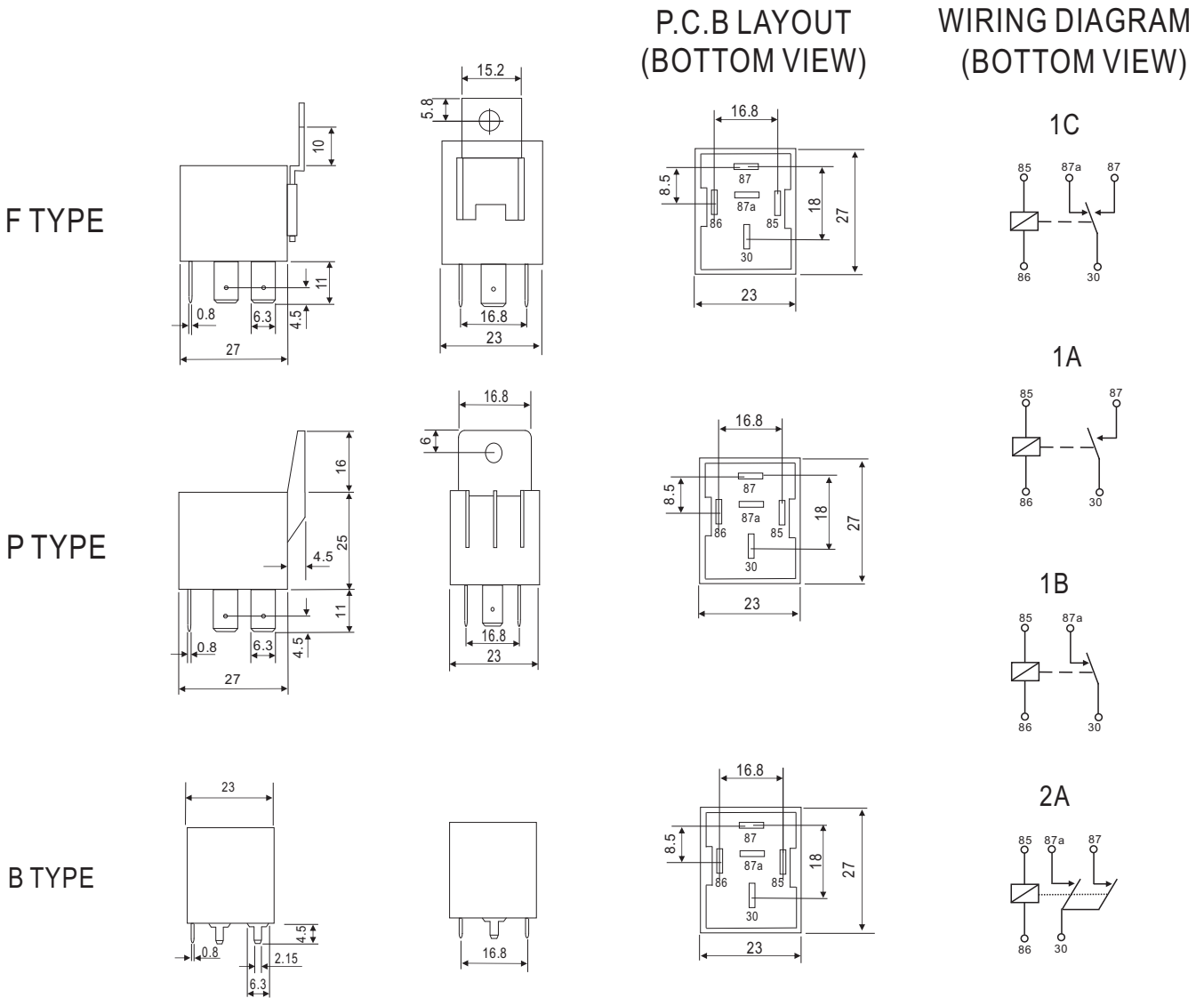
## CONTACT RATING

1PDT	Resistive (Cos.θ = 1)	DC 14V	40A/30A
1PST-DM	Resistive (Cos.θ = 1)	DC 14V	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(±0.1mm)



## 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	Ag Alloy.
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

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