

## RoHS compliant

Protective construction: Sealed type

## FEATURES

1. Compact with high contact rating Even with small 10 mm .394 inch (H) x 11 mm .433 inch (W) x 20 mm .787 inch (L) (dimensions, high capacity switching is provided: 1a, 8 A 250 V AC; 2a and 1a1b, 5 A 250 V AC.
2. High switching capability High contact pressure, low contact bounce, and wiping operation improve resistance to weld bonding. Resistant against lamp load and dielectric loading: 1a achieves maximum switching capacity of 2,000 VA ( 8 A 250 V AC).

## TYPICAL APPLICATIONS

1. Office and industrial electronic devices
2. Terminal devices of information processing equipment, such as printer, data recorder
3. Office equipment (copier, facsimile)
4. Measuring instruments
5. NC machines, temperature
controllers and programmable logic controllers

## ORDERING INFORMATION



DSP

## TYPES

| Contact arrangement | Nominal coil | Single side stable | 2 coil latching |
| :---: | :---: | :---: | :---: |
|  | voltage | Part No. | Part No. |
| 1 Form A | 3V DC | DSP1a-DC3V | DSP1a-L2-DC3V |
|  | 5V DC | DSP1a-DC5V | DSP1a-L2-DC5V |
|  | 6V DC | DSP1a-DC6V | DSP1a-L2-DC6V |
|  | 9V DC | DSP1a-DC9V | DSP1a-L2-DC9V |
|  | 12 V DC | DSP1a-DC12V | DSP1a-L2-DC12V |
|  | 24 V DC | DSP1a-DC24V | DSP1a-L2-DC24V |
| 1 Form A <br> 1 Form B | 3V DC | DSP1-DC3V-F | DSP1-L2-DC3V-F |
|  | 5V DC | DSP1-DC5V-F | DSP1-L2-DC5V-F |
|  | 6V DC | DSP1-DC6V-F | DSP1-L2-DC6V-F |
|  | 9V DC | DSP1-DC9V-F | DSP1-L2-DC9V-F |
|  | 12 V DC | DSP1-DC12V-F | DSP1-L2-DC12V-F |
|  | 24V DC | DSP1-DC24V-F | DSP1-L2-DC24V-F |
| 2 Form A | 3V DC | DSP2a-DC3V | DSP2a-L2-DC3V |
|  | 5V DC | DSP2a-DC5V | DSP2a-L2-DC5V |
|  | 6V DC | DSP2a-DC6V | DSP2a-L2-DC6V |
|  | 9V DC | DSP2a-DC9V | DSP2a-L2-DC9V |
|  | 12 V DC | DSP2a-DC12V | DSP2a-L2-DC12V |
|  | 24V DC | DSP2a-DC24V | DSP2a-L2-DC24V |

Standard packing: Carton: 50 pcs.; Case: 500 pcs.
Note: Reverse polarity type are manufactured by lot upon receipt of order.

* Sockets available.


## RATING

## 1. Coil data

1) Single side stable

| Nominal coil voltage | Pick-up voltage (at $20^{\circ} \mathrm{C} 68^{\circ} \mathrm{F}$ ) | Drop-out voltage (at $20^{\circ} \mathrm{C} 68^{\circ} \mathrm{F}$ ) | Nominal operating current $[ \pm 10 \%]$ (at $20^{\circ} \mathrm{C} 68^{\circ} \mathrm{F}$ ) | $\begin{gathered} \text { Coil resistance } \\ {[ \pm 10 \%]\left(\text { at } 20^{\circ} \mathrm{C} 68^{\circ} \mathrm{F}\right. \text { ) }} \end{gathered}$ | Nominal operating power | Max. applied voltage (at $20^{\circ} \mathrm{C} 68^{\circ} \mathrm{F}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3V DC | $80 \% \mathrm{~V}$ or less of nominal voltage (Initial) | $10 \% \mathrm{~V}$ or more of nominal voltage (Initial) | 100 mA | $30 \Omega$ | 300 mW | $130 \% \mathrm{~V}$ of nominal voltage |
| 5V DC |  |  | 60 mA | $83 \Omega$ |  |  |
| 6V DC |  |  | 50 mA | $120 \Omega$ |  |  |
| 9V DC |  |  | 33.3 mA | $270 \Omega$ |  |  |
| 12V DC |  |  | 25 mA | $480 \Omega$ |  |  |
| 24V DC |  |  | 12.5 mA | 1,920 2 |  |  |

2) 2 coil latching

| Nominal coil voltage | $\begin{aligned} & \text { Set voltage } \\ & \text { (at } 20^{\circ} \mathrm{C} 68^{\circ} \mathrm{F} \text { ) } \end{aligned}$ | Reset voltage (at $20^{\circ} \mathrm{C} 68^{\circ} \mathrm{F}$ ) |  | perating ent $20^{\circ} \mathrm{C} 68^{\circ} \mathrm{F}$ ) | $\begin{array}{r} \text { Coil } \\ {[ \pm 10 \%](\mathrm{a}} \end{array}$ | stance $\left.20^{\circ} \mathrm{C} 68^{\circ} \mathrm{F}\right)$ | Nomina p | perating <br> er | Max. applied voltage (at $20^{\circ} \mathrm{C} 68^{\circ} \mathrm{F}$ ) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Set coil | Reset coil | Set coil | Reset coil | Set coil | Reset coil |  |
| 3V DC | $80 \% \mathrm{~V}$ or less of nominal voltage (Initial) | $80 \% \mathrm{~V}$ or less of nominal voltage (Initial) | 100 mA | 100 mA | $30 \Omega$ | $30 \Omega$ | 300 mW | 300 mW | $130 \% \mathrm{~V}$ of nominal voltage |
| 5V DC |  |  | 60 mA | 60 mA | $83 \Omega$ | $83 \Omega$ |  |  |  |
| 6 V DC |  |  | 50 mA | 50 mA | $120 \Omega$ | $120 \Omega$ |  |  |  |
| 9V DC |  |  | 33.3 mA | 33.3 mA | $270 \Omega$ | $270 \Omega$ |  |  |  |
| 12 V DC |  |  | 25 mA | 25 mA | $480 \Omega$ | $480 \Omega$ |  |  |  |
| 24V DC |  |  | 12.5 mA | 12.5 mA | 1,920 2 | 1,920 |  |  |  |

