## Product Facts

■ AP5 make and break 5 A; AP10 make and break 10 A @ 270 Vdc

- 20 A overload rating
- Latching actuator available for low power consumption
- Ideal for applications from 28 to 1000 Vdc

■ Small size and weight
$■$ Wide variety of mounting styles (see pages 54 and 55)
■ No heat sinks required

- 2000 V isolation across open contacts
■ Vacuum-sealed contacts; can operate in harsh environments
■ Qualified to SAE ARD 50031
■ Space-rated version built in accordance with customers SCD

Notes:
*The load terminals should always be connected as follows: Common Contact +; Other Contact -
**10 amps for PC board connection.

## AP5/AP10 Relays

## AP5A, AP5B, \& AP5C Relays - 5 Amps

Product Specifications
Contact Arrangement -
AP5A - SPST-NO
AP5B - SPST-NC
AP5C - SPDT
Contact Form -
AP5A - A
AP5B - B
AP5C - C
Rated Resistive Load @ 270 Vdc 5 A*
Continuous Current Carry, Max. AP5A, AP5B, AP5C - 25 A**

Overload @ 270 Vdc -
AP5A, AP5B - 20 A
AP5C- 10 A
Contact Resistance, Max. -
10 mohm
Dielectric at Sea Level -
Coil to Case - 500 Vrms
All Other Points - 2,000 Vrms
Shock, 11ms, $1 / 2$ Sine (Peak) -
AP5A, AP5B, AP5C— 50 g
Vibration, Sinusoidal
( $55-2000 \mathrm{~Hz}$, Peak) - 10 g
Operating Ambient Temperature
Range - $-55^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
Load Life @ 270 Vdc, Min. -
AP5A, AP5B - 50,000 cycles
AP5C - 10,000 cycles

## AP10A, AP10B, AP10P \& AP11A Relays - 10 Amps

Product Specifications
Contact Arrangement -
AP10A - SPST-N0
AP10B - SPST-NC
AP10P - SPST Latching
Contact Form -
AP10A - A
AP10B - B
AP10P - P
Rated Resistive Load @ 270 Vdc 10 A*
Continuous Current Carry, Max. -
AP10A, AP10B - 25 A $^{* *}$
AP10P - 30 A*
Overload @ 270 Vdc — 20 A
Contact Resistance, Max. -
10 mohm
Dielectric at Sea Level -
Coil to Case - 500 Vrms
All Other Points - 2,000 Vrms
Shock, 11ms, $1 / 2$ Sine (Peak) 50 g

Coil Data

| Volts, Nominal | $\mathbf{1 2}$ | $\mathbf{2 8}$ | $\mathbf{2 8 ~ 2 ~}^{\mathbf{2}}$ | $\mathbf{1 2 0}$ |
| :--- | :---: | :---: | :---: | :---: |
| Pickup, Max. ${ }^{1}$ | 10 Vdc | 20 Vdc | 16 Vdc | 85 Vdc |
| Dropout, Min. | $.3-6 \mathrm{Vdc}$ | $.7-12 \mathrm{Vdc}$ | $\mathrm{N} / \mathrm{A}$ | $5-55 \mathrm{Vdc}$ |
| Coil Resistance $( \pm 10 \%)$ | $53 \Omega$ | $290 \Omega$ | $80 \Omega$ | $4700 \Omega$ |

Coil resistance rated at $25^{\circ} \mathrm{C}$
Notes:

1. Value for AP5C is 24 for 28 Vdc coil \& 100 for 120 Vdc coil
2. Latching

For factory-direct application assistance,
dial 800-253-4560, ext. 2055, or
805-220-2055.

Vibration, Sinusoidal ( $55-2000 \mathrm{~Hz}$, Peak) - 10 g
Operating Ambient Temperature
Range $-55^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
Load Life @ 270 Vdc, Min. -
AP10A - 10,000 cycles
AP10B, AP10P - 7,000 cycles
Operate Time,
Excluding Bounce, Max. -
AP10A, AP10B - 7 ms
AP10P -4 ms

Ordering Information
Sample Part Number
Series:
Contact Form:
A = SPST-NO
$B=$ SPST-NC $\quad C=$ SPDT
P = SPST Latching
Coil Voltage:
$2=12 \mathrm{Vdc}$, Bus Wire/PC Board
3 = 28 Vdc , Bus Wire/PC Board
$5=120$ Vdc, Bus Wire/PC Board
$7=12 \mathrm{Vdc}$, Turret Terminals
$8=28 \mathrm{Vdc}$, Turret Terminals
$9=120 \mathrm{Vdc}$, Turret Terminals
A $=12$ Vdc, Stud Terminals, Panel Mount
B $=28$ Vdc, Stud Terminals, Panel Mount
C $=120$ Vdc, Stud Terminals, Panel Mount

## Power Terminals:

3 = Solder Connection/PC Board 4 = Flying Leads
5 = Stud Terminals, Panel Mount
Mounting:
$2=$ Flanged Mount $4=$ Through Chassis Mount
5 = PCB Mount 7 = Panel Mount

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208


Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

## AP5/AP10 Relays (Continued)

PC board style mounting with PC board terminals (Available in forms A, B, \& C)

AP10A335 Shown as Part Number Sample


Panel style mounting with flying power leads and stud terminals (Available in forms A \& B)


Panel style mounting with stud terminals (Available in forms A \& B)


AP10AB57 Shown as Part Number Sample


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805-220-2055.

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