

查询"A2S1CSQ12VDC16R"供应信息

RoHS Compliant

**A2**

26.0 x 26.0 x 24.5 (39.5) mm

## Features

- Large switching capacity up to 40A
- Small size and light weight
- PCB pin and quick connect mounting available
- Suitable for automobile and lamp accessories
- QS-9000, ISO-9002 Certified Manufacturing

## Contact Data

|                     |                                                                                                              |                           |                        |
|---------------------|--------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|
| Contact Arrangement | 1A = SPST N.O.<br>1B = SPST N.C.<br>1C = SPDT<br>1U = SPST N.O. (2 terminals)                                | Contact Resistance        | < 30 milliohms initial |
| Contact Rating      | 1A : 40A @ 14VDC<br>1B : 30A @ 14VDC<br>1C : 40A @ 14VDC N.O. and<br>: 30A @ 14VDCN.C.<br>1U : 2x20A @ 14VDC | Contact Material          | AgSnO <sub>2</sub>     |
|                     |                                                                                                              | Maximum Switching Power   | 630W                   |
|                     |                                                                                                              | Maximum Switching Voltage | 75VDC                  |
|                     |                                                                                                              | Maximum Switching Current | 40A                    |

## Coil Data

| Coil Voltage<br>VDC |      | Coil Resistance<br>Ω +/- 10% |       | Pick Up Voltage<br>VDC (max)<br><br>70% of rated<br>voltage | Release Voltage<br>VDC (min)<br><br>10% of rated<br>voltage | Coil Power<br>W | Operate Time<br>ms | Release Time<br>ms |
|---------------------|------|------------------------------|-------|-------------------------------------------------------------|-------------------------------------------------------------|-----------------|--------------------|--------------------|
| Rated               | Max  | 1.6W                         | 1.9W  |                                                             |                                                             |                 |                    |                    |
| 6                   | 7.8  | 22.5                         | 19    | 4.20                                                        | .6                                                          | 1.60 or 1.90    | 7                  | 5                  |
| 12                  | 15.6 | 90                           | 75.8  | 8.40                                                        | 1.2                                                         |                 |                    |                    |
| 24                  | 31.2 | 360                          | 303.2 | 16.80                                                       | 2.4                                                         |                 |                    |                    |

## General Data

|                                                            |                                                        |
|------------------------------------------------------------|--------------------------------------------------------|
| Electrical Life @ rated load                               | 100K cycles, typical                                   |
| Mechanical Life                                            | 10M cycles, typical                                    |
| Insulation Resistance                                      | 100M Ω min. @ 500VDC                                   |
| Dielectric Strength, Coil to Contact<br>Contact to Contact | 750V rms min. @ sea level<br>500V rms min. @ sea level |
| Shock Resistance                                           | 147m/s <sup>2</sup> for 11 ms                          |
| Vibration Resistance                                       | 1.5mm double amplitude 10~40Hz                         |
| Terminal (Copper Alloy) Strength                           | 8N (quick connect), 4N (PCB pins)                      |
| Operating Temperature                                      | -40°C to +125°C                                        |
| Storage Temperature                                        | -40°C to +155°C                                        |
| Solderability                                              | 260°C for 5 s                                          |
| Weight                                                     | 31g                                                    |

### Caution

1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.



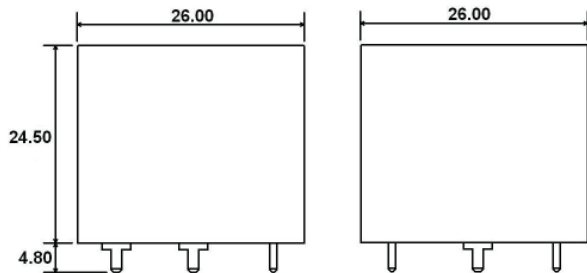
## Ordering Information

|                                                                                                                                                                                                                                                                                                                                                                                                |    |    |   |   |       |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|---|---|-------|-----|
| 1. Series                                                                                                                                                                                                                                                                                                                                                                                      | A2 | 1C | S | Q | 12VDC | 1.6 |
| A2 standard<br>A2F with mounting flange<br>A2M with metal bracket<br>A2S with metal bracket and shroud                                                                                                                                                                                                                                                                                         |    |    |   |   |       |     |
| 2. Contact Arrangement<br>1A = SPST N.O.<br>1B = SPST N.C.<br>1C = SPDT<br>1U = SPST N.O. (2 terminals)                                                                                                                                                                                                                                                                                        |    |    |   |   |       |     |
| 3. Sealing Option<br>S = Sealed<br>C = Dust Cover *not available with A2S                                                                                                                                                                                                                                                                                                                      |    |    |   |   |       |     |
| 4. Termination<br>P = PCB Pins *not available with A2S<br>Q = Quick Connect                                                                                                                                                                                                                                                                                                                    |    |    |   |   |       |     |
| 5. Coil Voltage<br>6VDC<br>12VDC<br>24VDC                                                                                                                                                                                                                                                                                                                                                      |    |    |   |   |       |     |
| 6. Coil Power<br>1.6 = 1.6W<br>1.9 = 1.9W                                                                                                                                                                                                                                                                                                                                                      |    |    |   |   |       |     |
| 7. Coil Suppression<br>Blank = Standard<br>D = Diode (1N4005) Cathode on "86" terminal<br>D1 = Diode (1N4004) Cathode on "86" terminal<br>R = Resistor (180Ω for 6VDC; 680Ω for 12VDC; 2700Ω for 24VDC)<br>2D = 2 Diodes (1N4005)<br>DR = Diode & Resistor Cathode on "86" terminal (1N4005 & 180Ω for 6VDC; 680Ω for 12VDC; 2700Ω for 24VDC)<br>** Consult factory if other values are needed |    |    |   |   |       |     |

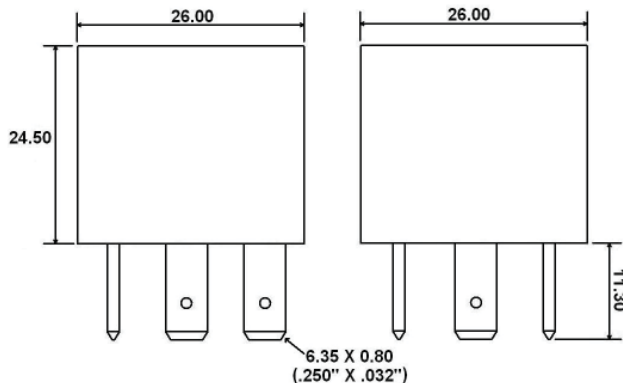
Dimensions shown in mm. Dimensions are shown for reference purposes only.

## Dimensions

Units = mm



A2 with PC Pins



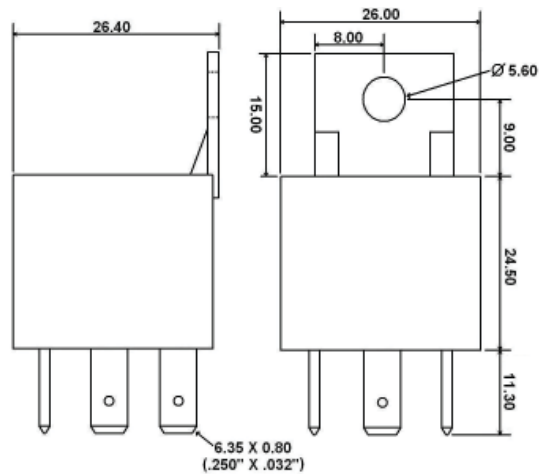
A2 with Quick Connects

Specifications and availability subject to change without notice.

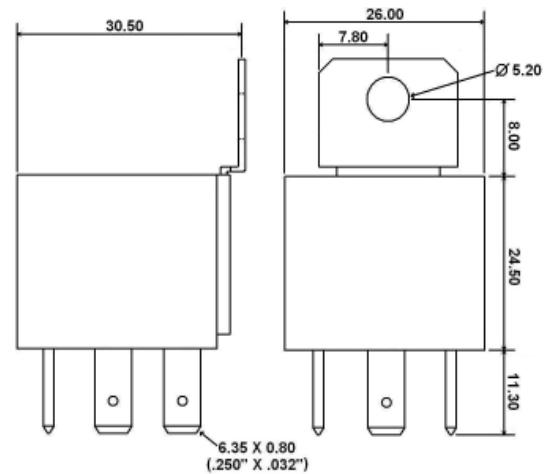
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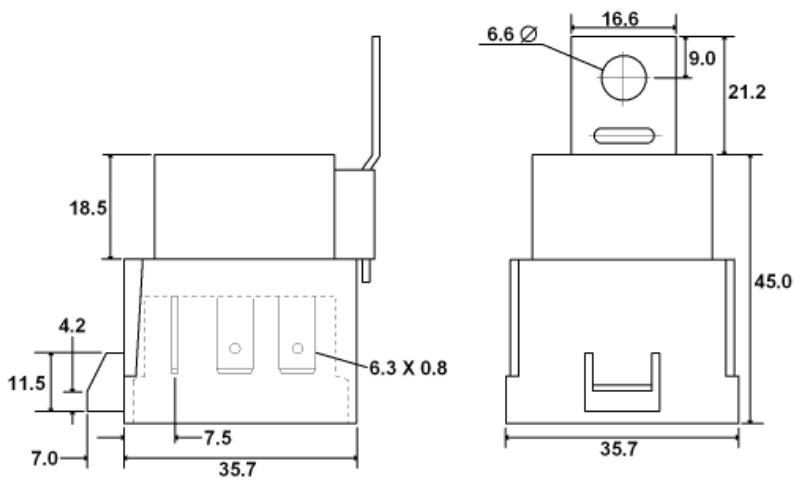
Units = mm



**A2F with Quick Connect**



**A2M with Quick Connects**



**A2S with Quick Connects**

## Schematics, PC Pin Dimensions & PC Layouts

Bottom Views

