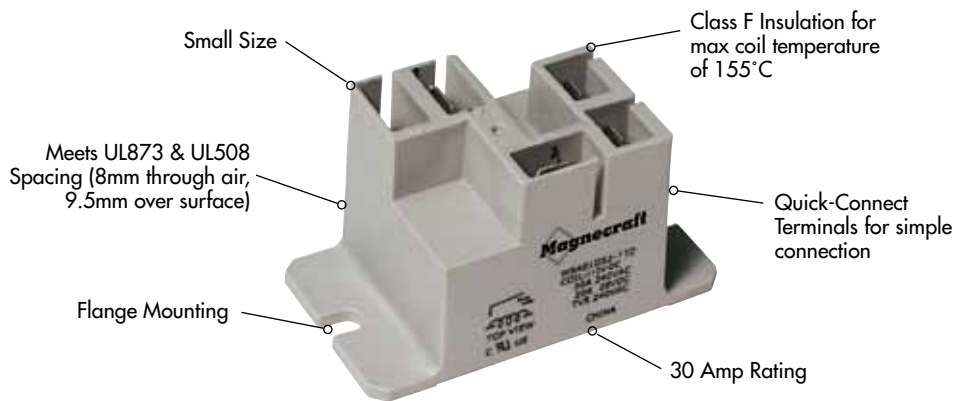


## 9A Miniature Power Relays/SPST and SPDT 30 Amp Rating (DC and AC)

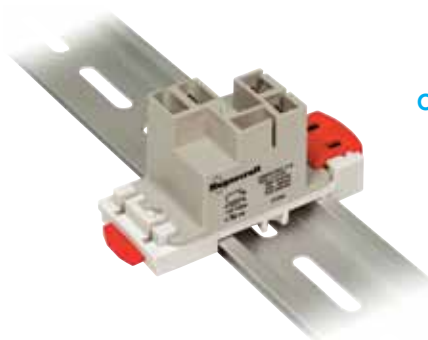


### General Specifications

(UL 508)

SPST

| Contact Characteristics        |                            | Units       | 9AS1                |
|--------------------------------|----------------------------|-------------|---------------------|
| Number and type of Contacts    |                            |             | SPST-NO             |
| Contact materials              |                            |             | Silver Alloy        |
| Thermal (Carrying) Current     |                            | A           | 30                  |
| Maximum Switching Voltage      |                            | V           | 300V                |
| Switching Current @ Voltage    | ~                          | Resistive   | 30A @ 240V 50/60Hz  |
|                                | ⋮                          | Resistive   | 30A @ 28V           |
|                                |                            | HP          | 2 @ 240V 50/60Hz    |
|                                |                            | HP          | 1 @ 125V 50/60Hz    |
|                                |                            | Pilot Duty  | 470 VA              |
| Minimum Switching Requirement  | Minimum                    | mA          | 100 @ 5 VDC, 12 VAC |
| Coil Characteristics           |                            |             |                     |
| Voltage Range                  | ~                          | V           | 12...277            |
|                                | % of Nominal               | V           | 5...110             |
| Operating Range                | ~                          |             | 85% to 120%         |
|                                | ⋮                          |             | 75% to 120%         |
| Average consumption            | ~                          | VA          | 2.8                 |
|                                | ⋮                          | W           | 1                   |
| Drop-out voltage threshold     | ~                          |             | 10%                 |
|                                | ⋮                          |             | 10%                 |
| Performance Characteristics    |                            |             |                     |
| Electrical Life (UL 508)       | Operations @ Rated Current | (Resistive) | 100,000             |
| Mechanical Life                | Unpowered                  |             | 10,000,000          |
| Operating time (response time) |                            | ms          | 15                  |
| Dielectric                     | Between coil and contact   | ~           | 2500                |
|                                | Between contacts           | ~           | 1500                |
| Environment                    |                            |             |                     |
| Product certifications         | Standard version           |             | UL                  |
| Ambient air temperature        | Storage                    | °C          | -40...+85           |
| around the device              | Operation                  | °C          | -40...+55           |
| Vibration resistance           | Operational                | g-n         | 3, 10-55Hz          |
| Shock resistance               |                            | g-n         | 10                  |
| Weight                         |                            | grams       | 33                  |

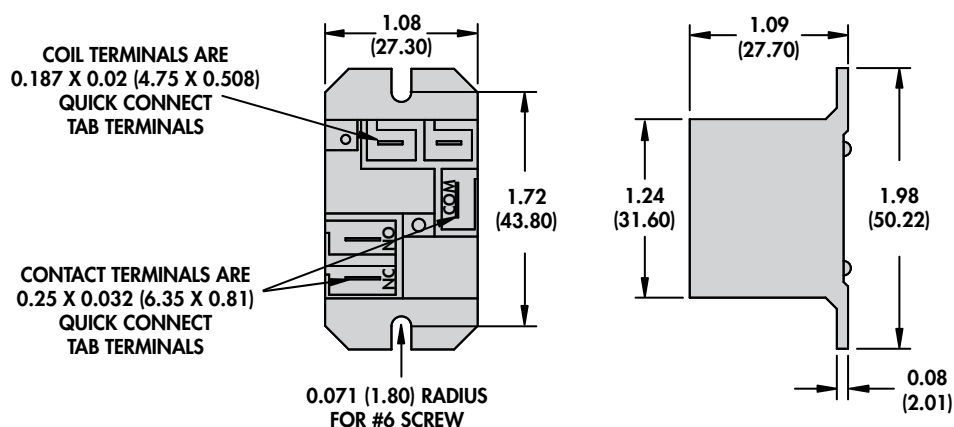
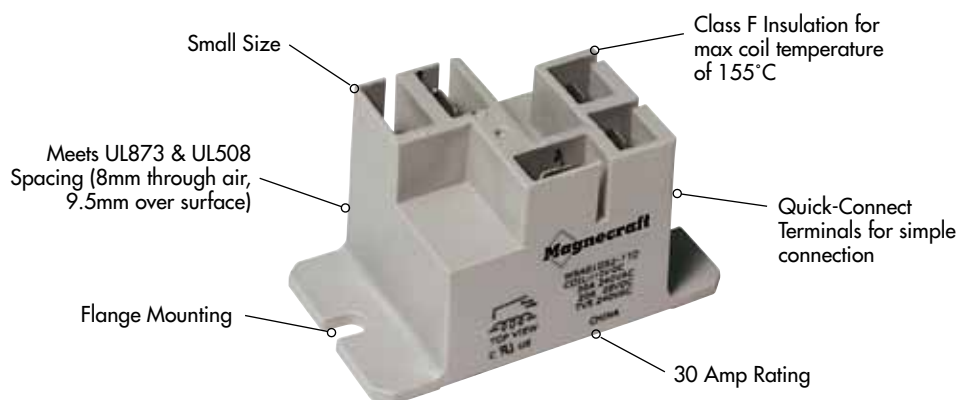


Optional DIN Rail Adapter  
(16-9ADIN-1)  
See Section 3 p.17

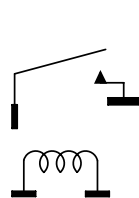
SPDT

| Normally Open Contact | Normally Closed Contact |
|-----------------------|-------------------------|
| Silver Alloy          | Silver Alloy            |
| 30                    | 15                      |
| 300V                  | 300V                    |
| 30A @ 240V 50/60Hz    | 15A @ 240 50/60Hz Max   |
| 30A @ 28V             | 10A @ 28V               |
| 2 @ 240V 50/60Hz      | 1/2 @ 240 V 50/60Hz     |
| 1 @ 125V 50/60Hz      | 1/4 @ 125 V 50/60Hz     |
| 470 VA                | 275 VA                  |
| 100 @ 5 VDC, 12 VAC   | 100 @ 5 VDC, 12 VAC     |
| 12....277             |                         |
| 5...110               |                         |
| 85% to 120%           |                         |
| 75% to 120%           |                         |
| 2.8                   |                         |
| 1                     |                         |
| 10%                   |                         |
| 10%                   |                         |
| 100,000               |                         |
| 10,000,000            |                         |
| 15                    |                         |
| 2500                  |                         |
| 1500                  |                         |
| UL                    |                         |
| -40...+85             |                         |
| -40...+55             |                         |
| 3, 10-55Hz            |                         |
| 10                    |                         |
| 33                    |                         |

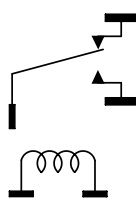
## 9A Miniature Power Relays/SPST and SPDT 30 Amp Rating (DC and AC) *continued*



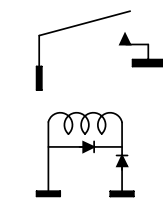
### WIRING DIAGRAMS



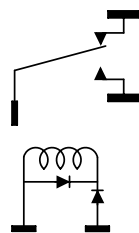
1 FORM A  
DC OPERATED  
(TOP VIEW)  
Fig. A



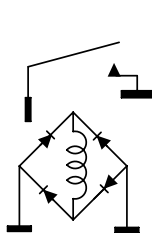
1 FORM C  
DC OPERATED  
(TOP VIEW)  
Fig. B



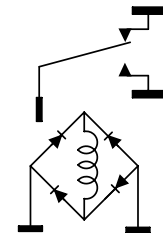
1 FORM A  
AC OPERATED  
1/2 WAVE RECTIFIED  
(TOP VIEW)  
Fig. C



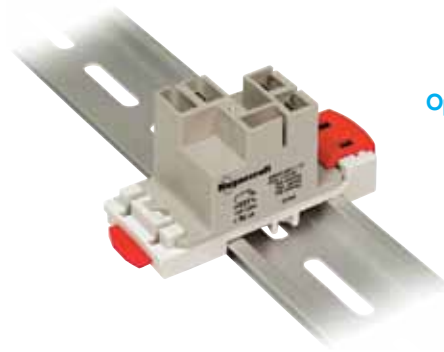
1 FORM C  
AC OPERATED  
1/2 WAVE RECTIFIED  
(TOP VIEW)  
Fig. D



1 FORM A  
AC OPERATED  
FULL WAVE RECTIFIED  
(TOP VIEW)  
Fig. E



1 FORM C  
AC OPERATED  
FULL WAVE RECTIFIED  
(TOP VIEW)  
Fig. F



Optional DIN Rail Adapter  
(16-9ADIN-1)  
See Section 3 p.17

### Standard Part Numbers

### BOLD-FACED PART NUMBERS ARE NORMALLY STOCKED

| Nominal Input Voltage | Coil Resistance (OHMS) | Part Number        | Figure | Contact Configuration |
|-----------------------|------------------------|--------------------|--------|-----------------------|
| <b>SPST DC Relays</b> |                        |                    |        |                       |
| 5 VDC                 | 25 $\Omega$            | <b>9AS1D52-5</b>   | A      | SPST-NO               |
| 12 VDC                | 144 $\Omega$           | <b>9AS1D52-12</b>  | A      | SPST-NO               |
| 24 VDC                | 576 $\Omega$           | <b>9AS1D52-24</b>  | A      | SPST-NO               |
| 110/125 VDC           | 12100 $\Omega$         | 9AS1D52-110        | A      | SPST-NO               |
| <b>SPDT DC Relays</b> |                        |                    |        |                       |
| 5 VDC                 | 25 $\Omega$            | <b>9AS5D52-5</b>   | B      | SPDT                  |
| 12 VDC                | 144 $\Omega$           | <b>9AS5D52-12</b>  | B      | SPDT                  |
| 24 VDC                | 576 $\Omega$           | <b>9AS5D52-24</b>  | B      | SPDT                  |
| 110/125 VDC           | 12100 $\Omega$         | 9AS5D52-110        | B      | SPDT                  |
| <b>SPST AC Relays</b> |                        |                    |        |                       |
| 24 VAC 50/60 Hz       | 500 $\Omega$           | <b>9AS1A52-24</b>  | E      | SPST-NO               |
| 120 VAC 50/60 Hz      | 3000 $\Omega$          | <b>9AS1A52-120</b> | C      | SPST-NO               |
| 240 VAC 50/60 Hz      | 12100 $\Omega$         | 9AS1A52-240        | C      | SPST-NO               |
| <b>SPDT AC Relays</b> |                        |                    |        |                       |
| 24 VAC 50/60 Hz       | 500 $\Omega$           | <b>9AS5A52-24</b>  | F      | SPDT                  |
| 120 VAC 50/60 Hz      | 3000 $\Omega$          | <b>9AS5A52-120</b> | D      | SPDT                  |
| 240 VAC 50/60 Hz      | 12100 $\Omega$         | <b>9AS5A52-240</b> | D      | SPDT                  |

### Part Number Builder

| 9A     | S                                                | 5                       | A                | 5                             | 2                | -24          |
|--------|--------------------------------------------------|-------------------------|------------------|-------------------------------|------------------|--------------|
| Series | Cover                                            | Configuration           | Current Type     | Mount                         | Contact Material | Voltage      |
| 9A     | P = Enclosed dust cover<br>S = Sealed dust cover | 1 = SPST-NO<br>5 = SPDT | A = AC<br>D = DC | 5 = Panel Mount Flanged Cover | 2 = Silver Alloy | Coil Voltage |
|        |                                                  |                         |                  |                               |                  |              |

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

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