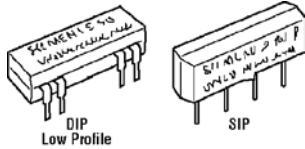


V23100 Reed Relays DIP/SIP Series



- Features**

  - Direct Coil Control with TTL-Signals Possible
  - Pin Compatible with ICs
  - Low Contact Noise and Low Thermoelectric Voltage
  - Ultrasonic Cleanable
  - High Vibration and Shock Resistant
- Applications**

  - ATE- In Circuit Tester
  - Switch for Test Point
  - Telecom Equipment
  - Alarm and Security Equipment
  - Measurement and Control Systems

Relays are available with optional diode and electrostatic shield between coil and contact. **Maximum Switching Current:** DIP: 1 or 2 makes — 0.5 A, 1 changeover — 0.25 A; SIP: 1 make — 0.5 A. **Maximum Continuous Current:** DIP: 1 and 2 makes — 1 A, DIP 1 changeover — 1.2 A; SIP: 1 make — 1 A. **Typical Nominal Power Consumption (@ 20°C):** 50-288 mW. **Operate Voltage:** 70% of nominal power. **Release Voltage:** 15% of nominal voltage. **Operating Temperature:** -20°C to +70°C.

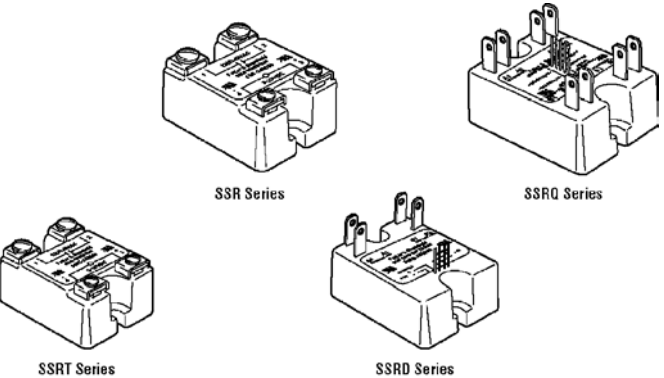
DIP — Low Profile

| Stock No. | Mfr.'s Type       | Nominal Voltage | Contact Arrangements | Resistance @ 20°C (Ω) | EACH |       |       |
|-----------|-------------------|-----------------|----------------------|-----------------------|------|-------|-------|
|           |                   |                 |                      |                       | 1-24 | 25-49 | 50-99 |
| 886-2325  | V23100-V4005-A000 | 5 VDC           | SPST-NO              | 500                   | 1.86 | 1.61  | 1.46  |
| 886-2326  | V23100-V4012-A000 | 12 VDC          | SPST-NO              | 1000                  | 1.86 | 1.61  | 1.46  |
| 886-2327  | V23100-V4024-A000 | 24 VDC          | SPST-NO              | 2000                  | 1.91 | 1.65  | 1.50  |

SIP

|          |                   |        |         |      |      |      |      |
|----------|-------------------|--------|---------|------|------|------|------|
| 886-2328 | V23100-V4505-A000 | 5 VDC  | SPST-NO | 500  | 1.91 | 1.65 | 1.50 |
| 886-2329 | V23100-V4512-A000 | 12 VDC | SPST-NO | 1000 | 1.91 | 1.65 | 1.50 |
| 886-2330 | V23100-V4524-A000 | 24 VDC | SPST-NO | 2000 | 1.95 | 1.69 | 1.53 |

Solid State Relays



SSRT Series — AC Switch without Snubber

SSRT series relay is a triac output solid state relay that is controlled by an opto-electronic coupler. Intended for use as an On/Off switch for loads through 25 amps. EMI and RFI are greatly reduced due to zero voltage turn-on and zero current turn-off of the load. 1 Form A (SPST-NO). Plastic case is UL rated self-extinguishing.

| Stock No. | Mfr.'s Type | Line Voltage | Input Voltage | Max. Switching Rating/Output | EACH  |       |       |
|-----------|-------------|--------------|---------------|------------------------------|-------|-------|-------|
|           |             |              |               |                              | 1-24  | 25-49 | 50-99 |
| 886-7020  | SSRT-240A10 | 24-280 VAC   | 90-280 VAC    | 0.05-10 A rms @ 80°C         | 28.27 | 25.70 | 23.56 |
| 886-7021  | SSRT-240A25 | 24-280 VAC   | 90-280 VAC    | 0.05-25 A rms @ 80°C         | 34.15 | 32.45 | 29.73 |
| 886-7022  | SSRT-240D10 | 24-280 VAC   | 3-32 VDC      | 0.05-10 A rms @ 80°C         | 25.78 | 23.03 | 21.11 |
| 886-7023  | SSRT-240D25 | 24-280 VAC   | 3-32 VDC      | 0.05-25 A rms @ 80°C         | 29.75 | 27.04 | 24.78 |

SSR Series — AC Switch with Snubber

SSR Series is a medium/high power, 120/240 VAC, 47-70 Hz inverse parallel SCR output solid state relay that is controlled by an opto-electronic coupler intended for use as On/Off switch for loads through 110 amps. Ideal for interfacing between logic output of TTL, HTL, or MOS and AC loads such as solenoids, motors and transformers.

|          |              |   |            |                      |       |       |       |
|----------|--------------|---|------------|----------------------|-------|-------|-------|
| 886-7010 | SSR-240A25   | — | 90-280 VAC | 0.05-25 A rms @ 80°C | 28.47 | 27.05 | 25.64 |
| 886-7011 | SSR-240A50   | — | 90-280 VAC | 0.05-50 A rms @ 80°C | 58.40 | 55.48 | 52.55 |
| 886-7013 | SSR-240D25   | — | 3-32 VDC   | 0.05-25 A rms @ 80°C | 32.69 | 29.71 | 27.24 |
| 886-7014 | SSR-240D25R* | — | 3-32 VDC   | 0.05-25 A rms @ 80°C | 33.36 | 31.70 | 30.03 |
| 886-7015 | SSR-240D50   | — | 3-32 VDC   | 0.05-50 A rms @ 80°C | 40.47 | 36.79 | 33.73 |

\*Random voltage turn-on.

SSRD Series — Dual AC Switch

SSRD series relays comprise two totally independent, optically isolated, inverse parallel SCR output solid state relays in one standard package. Intended to be used as two On/Off switches for loads through 40 amps. UL recognized and CSA certified for industrial applications.

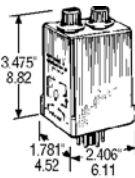
|          |             |            |          |                 |       |       |       |
|----------|-------------|------------|----------|-----------------|-------|-------|-------|
| 886-7025 | SSRD-240D25 | 24-280 VAC | 3-32 VDC | 25 A rms @ 80°C | 59.49 | 54.08 | 49.57 |
| 886-7026 | SSRD-240D40 | 24-280 VAC | 3-32 VDC | 40 A rms @ 80°C | 82.62 | 75.11 | 68.85 |

SSRQ Series — AC Switch

SSRQ series relay comprises four totally independent, optically isolated, triac output solid state relays in one standard package. Designed to be used as four On/Off switches for loads through 20 amps.

|          |             |            |          |                 |       |       |       |
|----------|-------------|------------|----------|-----------------|-------|-------|-------|
| 886-7024 | SSRQ-240D20 | 24-280 VAC | 3-32 VDC | 20 A rms @ 80°C | 95.23 | 86.57 | 79.36 |
|----------|-------------|------------|----------|-----------------|-------|-------|-------|

CS Series Solid-State Voltage Sensors

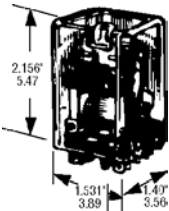


Adjustable pick-up, drop-out voltages. **Drain:** 3 mA (max.); after sensing, 30 mA. DC polarity protection. **2 Form C(DPDT) Contacts:** 10 A at 28 VDC resistive; 120 VAC resistive. **Ambient:** -40° to +55°C. AC types — 50 to 60 Hz. Octal plug. Cover. Uses 8-pin octal sockets. **Weight:** 10 oz. (284 gm).

| Stock No. | Mfr.'s Type  | Pick-Up Range | Drop-Out Range | V  | EACH   |        |        |
|-----------|--------------|---------------|----------------|----|--------|--------|--------|
|           |              |               |                |    | 1-24   | 25-49  | 50-99  |
| 886-0118  | CSJ-38-70010 | 92-140 V      | 90-138 V       | AC | 115.45 | 108.95 | 101.69 |

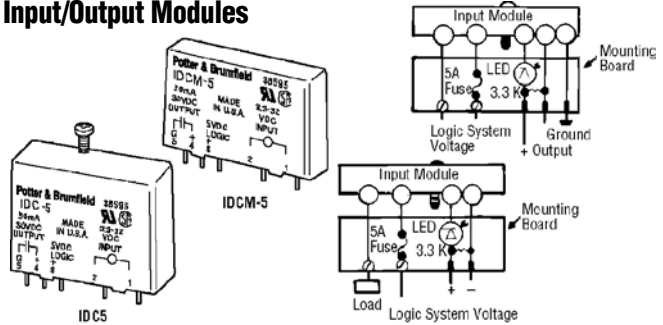
KUL Magnetic Latching Relays

Continuous duty single coil types. Uses a permanent magnet in parallel with normal magnetic circuit, requires only half the space of mechanical interlock types. Continuous latch condition even during loss of power. Contacts rated 10 amps at 28 VDC or 120 VAC, 80% power factor. **Temperature Range:** -45° to 70°C. All are DPDT. **Average Weight:** 3½ oz.



| Stock No. | Mfr.'s Type    | Coil   |      | EACH  |       |       |
|-----------|----------------|--------|------|-------|-------|-------|
|           |                | V      | Ohms | 1-24  | 25-49 | 50-99 |
| 886-0763  | KUL-11A15S-120 | 120 AC | 3700 | 34.80 | 30.78 | 28.41 |
| 886-0766  | KUL-11D15S-24  | 24 DC  | 472  | 26.85 | 25.28 | 23.47 |

Input/Output Modules



Slim Line Input/Output Modules

Slim line input/output modules provide interfacing between microprocessor- or computer-based control systems and external input devices and loads such as switches, sensors, valves and motor starters. Offered in four photo-isolated versions — AC input, AC output, DC input, DC output. Units are color-coded and have high isolation and noise immunity. Packaged in a 0.4" enclosure for replacement without disturbing wiring. On modules of the same voltage, output is compatible with input of the input module. Ideal for series operation. 1 Form A (SPST-NO).

| Stock No. | Mfr.'s Type | Logic Voltage | Input   |        | Output  |       | EACH  |       |       |
|-----------|-------------|---------------|---------|--------|---------|-------|-------|-------|-------|
|           |             |               | MAX V   | MAX mA | MAX mA  | MAX m | 1-24  | 25-49 | 50-99 |
| 886-7027  | IACM-5      | 5 VDC         | 140 VAC | 9      | 30 VDC  | 0.1   | 9.74  | 9.26  | 8.31  |
| 886-7029  | IDCM-5      | 5 VDC         | 32 VDC  | 39     | 30 VDC  | 0.1   | 9.74  | 9.26  | 8.31  |
| 886-7030  | OACM-5      | 5 VDC         | 8 VDC   | 28     | 280 VAC | 3.0   | 13.12 | 12.47 | 8.32  |
| 886-7101  | OACM-5H     | 5 VDC         | 8 VDC   | 28     | 280 VAC | 5.0   | 11.99 | 10.98 | 10.04 |
| 886-7100  | OACM-UH     | 3-15 VDC      | 15 VDC  | 44     | 280 VAC | 5.0   | 11.99 | 10.99 | 10.04 |
| 886-7033  | ODCM-5      | 5 VDC         | 8 VDC   | 21     | 60 VDC  | 3.0   | 10.92 | 9.93  | 9.01  |

Solid State Input/Output Modules

A reliable interface between microprocessor- or computer-based control systems and external input devices and loads, these photo-isolated modules feature excellent isolation and transient immunity. On modules of the same voltage type, AC or DC, the output of the output modules is compatible with the input of the input modules, making them ideal for series operation. Modules are color-coded and packaged in industry standard plug-in enclosure. Units interchange easily without disturbing wiring. UL recognized, CSA certified. Order mounting boards separately below.

| Stock No. | Mfr.'s Type | Usage     | Logic Voltage VDC | Typ. Input Current @ Nom. Input Voltage | Max. Load Current @ Max. Load Voltage | EACH  |       |       |
|-----------|-------------|-----------|-------------------|-----------------------------------------|---------------------------------------|-------|-------|-------|
|           |             |           |                   |                                         |                                       | 1-24  | 25-49 | 50-99 |
| 886-7034  | IAC5        | AC Input  | 5 VDC             | 8 mA @ 120 VAC                          | 50 mA @ 30 VDC                        | 10.92 | 9.93  | 9.01  |
| 886-7038  | IAC5A       | AC Input  | 5 VDC             | 6 mA @ 240 VAC                          | 50 mA @ 30 VDC                        | 10.42 | 9.91  | 9.01  |
| 886-7039  | IAC15       | AC Input  | 15 VDC            | 8 mA @ 120 VAC                          | 50 mA @ 30 VDC                        | 10.47 | 9.60  | 8.77  |
| 886-7035  | IDC5        | DC Input  | 5 VDC             | 13 mA @ 32 VDC                          | 50 mA @ 30 VDC                        | 10.92 | 9.93  | 9.01  |
| 886-7037  | OAC5A       | AC Output | 5 VDC             | 24 mA @ 5 VDC                           | 3 A @ 280 VAC                         | 14.04 | 12.72 | 11.54 |
| 886-8008  | OAC5        | AC Output | 5 VDC             | 20 mA @ 5 VDC                           | 3 A @ 280 VAC                         | 11.03 | 9.93  | 9.01  |
| 886-8002  | OAC15       | AC Output | 15 VDC            | 25 mA @ 15 VDC                          | 3 A @ 280 VAC                         | 10.46 | 9.70  | 8.77  |
| 886-7105  | OAC-5H      | AC Output | 5 VDC             | 24 mA @ 5 VDC                           | 5 A @ 280 VAC                         | 11.99 | 10.98 | 10.04 |
| 886-7036  | ODC5        | DC Output | 5 VDC             | 18 mA @ 5 VDC                           | 3 A @ 60 VDC                          | 10.91 | 9.93  | 9.01  |

UL Recognized Mounting Boards for I/O Modules

| Stock No. | Mfr.'s Type | No. of Module Positions | Approx. Dimensions L x W x H | EACH   |        |        |
|-----------|-------------|-------------------------|------------------------------|--------|--------|--------|
|           |             |                         |                              | 1-24   | 25-49  | 50-99  |
| 886-7040  | 2I04A       | 4                       | 4.5 x 3.5 x 2.2"             | 29.13  | 26.48  | 24.28  |
| 886-7041  | 2I08        | 8                       | 8.4 x 3.5 x 2.2"             | 56.66  | 51.94  | 47.93  |
| 886-7042  | 2I016       | 16                      | 14.4 x 3.5 x 2.2"            | 110.12 | 100.11 | 91.77  |
| 886-7043  | 2I024       | 24                      | 18.75 x 4.5 x 2.2"           | 161.59 | 148.12 | 136.73 |
| 886-7111  | 2I0M24*     | 24                      | 8 x 6 x 2.16"                | 150.74 | 138.18 | 127.55 |

\*For slim line input/output modules.