

Slim Interface Relays

Overview

Klemsan Slim Interface Relays are highly compact and lightweight relays especially useful where cabinet space is a consideration. Encased in a self-extinguishing plastic housing, these high quality relays offer a long useful life. Great for use with PLC automation systems, electric power plants, energy management systems, medium voltage panels, industrial machines, and more.

Features

- 35mm DIN-rail mount
- Slim 6.2 mm design
- Integrated LED indicator (On)
- Integrated resistor, capacitor, and Zener diode (RCZ) filter on select models
- For use in supply circuits where leakage current is an issue
- DC and AC supply voltage options
- Wide range of power input from 12V to 230V
- High level of electromagnetic compatibility (EMC)
- Self-extinguishing plastic housing
- Plug-in bridges
- UL certified



KPR-SCF-230VAC-1

Slim Interface Relays

| Part Number | Price | Description | Coil Voltage | Configuration | Contact Rating | Integrated RCZ Filter | Drawing Link |
|---|----------|-------------------------------------|--------------|---------------|----------------|-----------------------|----------------------------|
| <u>KPR-SCF-230VAC-1</u> | \$-44i9: | Interface relay with LED indicators | 230VAC | SPDT | 6A | Yes | <u>PDF</u> |
| <u>KPR-SCF-115VACDC-1</u> | \$-44ia: | | 115V AC/DC | | | Yes | <u>PDF</u> |
| <u>KPR-SCE-12VACDC-1</u> | \$-44ib: | | 12V AC/DC | | | No | <u>PDF</u> |
| <u>KPR-SCE-24VACDC-1</u> | \$-44ic: | | 24V AC/DC | | | No | <u>PDF</u> |
| <u>KPR-SCE-230VACDC-1</u> | \$-44id: | | 230V AC/DC | | | No | <u>PDF</u> |

Slim Interface Relays Accessories

| Part Number | Price | Description | Quantity | Drawing Link |
|-----------------------------------|----------|---|----------|----------------------------|
| <u>APP-KPR</u> | \$-44ie: | Orange polyamide separator plate | 5 | <u>PDF</u> |
| <u>TK-KPR-S16</u> | \$-44if: | 16-pole push-in type interface relay jumper | 5 | <u>PDF</u> |
| <u>TK-KPR-S8</u> | \$-44ig: | 8-pole push-in type interface relay jumper | 5 | <u>PDF</u> |

Note: Relay jumpers can be cut to match the number of relays when less than 8 or 16 count.



APP-KPR



TK-KPR-S16

Slim Interface Relays Specifications

| Slim Interface Relays Specifications | | | | | | |
|--------------------------------------|----|---|------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|
| Part Numbers | | KPR-SCF-230VAC-1 | KPR-SCF-115VACDC-1 | KPR-SCE-12VACDC-1 | KPR-SCE-24VACDC-1 | KPR-SCE-230VACDC-1 |
| Input Specifications | | | | | | |
| Nominal Voltage | | 230VAC | 115V AC/DC | 12V AC/DC | 24V AC/DC | 230V AC/DC |
| Operating voltage range | | 196-265 VAC | 98-132V AC/DC | 10-14V AC/DC | 20-28V AC/DC | 196-265V AC/DC |
| Release voltage | | 92VAC | 46V AC/DC | 5V AC/DC | 10V AC/DC | 92V AC/DC |
| Power Consumption | AC | <0.9 VA | <0.7 VA | <0.35 VA | <0.2 VA | <1.3 VA |
| | DC | n/a | <0.6 W | <0.35 W | <0.2 W | <1.2 W |
| Contact Specifications | | | | | | |
| Type | | 1 SPDT | | | | |
| Material | | Silver Tin Oxide (AgSn02) | | | | |
| Operate time | | 10ms maximum | | | | |
| Release time | | 5ms maximum | | | | |
| Max Wire Size | | 2.5 mm² (14AWG) | | | | |
| Maximum ratings | AC | 6A/250VAC, 1500VA | | | | |
| | DC | 6A/30VDC; 180W | | | | |
| Minimum Load | | 6VDC 0.1 A | | | | |
| Mechanical life time | | 10 ⁷ operations | | | | |
| Electrical life time operations | | 3x10 ⁴ N.O. operations 1x10 ⁴ N.C. operations | | | | |
| Wiping Current | | 10VDC 10mA, 50 cycles 15-20 Hz | | | | |
| General Specifications | | | | | | |
| Connection | | Screw terminal | | | | |
| Isolation resistance | | 1000MΩ (500VDC) | | | | |
| Dielectric strength | | Between relay coil and contacts: 4000VAC for 1 minute Between contacts: 1000VAC for 1 minute | | | | |
| Ambient temperature | | -40 to +85°C [-40 to +185°F] | | | | |
| Ambient humidity | | 5 to 85% (no condensation) | | | | |
| Protection rating | | IP20 | | | | |
| Mounting position | | No restrictions | | | | |
| Maximum torque | | 0.4 N•m [0.295 ft-lbs] | | | | |
| Relay Indicator | | Green LED | | | | |
| Weight (g [oz]) | | 33.4 [1.18] | 33.6 [1.19] | 33.2 [1.17] | 33.0 [1.16] | 33.2 [1.17] |
| Agency Approvals and Standards* | | UL Listed (E361956) CE REACH | | | | |

* To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

Slim Interface Relays Wiring Diagram

Wiring Diagram

