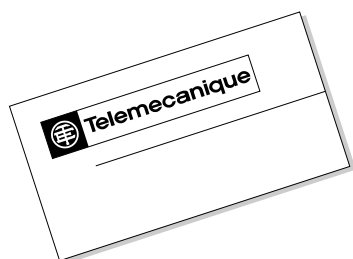


Alternating Relays SKE

File 8501



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Alternating Relays SKE

The mini-control relay with alternating contacts makes it possible to automatically split the operating time between 2 circuits of a redundant system (see functional diagram below).

By regularly energizing the “safety circuits,” the device makes it possible to ensure that they are operating correctly.



CA2SKE20

- Width of mini-control relay 45 mm.
- Mounting on 35mm DIN 3 track or direct panel mount.
- Screw clamp terminals.
- Cannot be fitted with front mounted auxiliary contact block.
- Cannot be fitted with coil suppressor module.

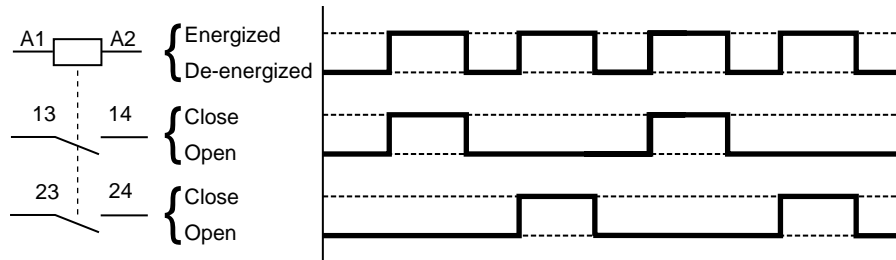
| | | |
|------------------------|---------------------|---|
| Control circuit supply | Contact arrangement | Basic reference. Complete with code indicating control circuit voltage. |
| | | |
| AC | 2 | CA2SKE20●● |

AC coil voltages 50/60 Hz

| | | | | | | | | | | |
|-------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Volts | 24 | 48 | 110 | 120 | 220 | 230 | 240 | 380 | 400 | 480 |
| Code | B7 | E7 | F7 | G7 | M7 | P7 | U7 | Q7 | V7 | T7 |

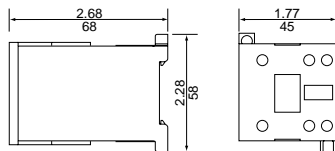
Functional diagram

Mini-control relays with alternating contacts CA2SKE20

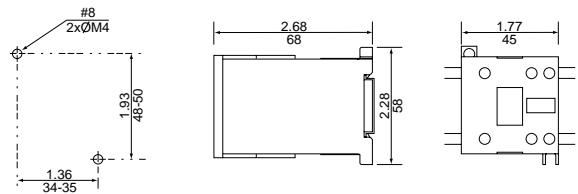


Dimensions

CA2-SKE
On panel



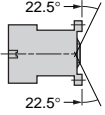
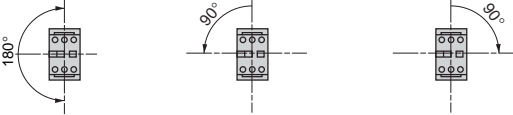
On rail AM1-DP200 or AM1-DE200
(35 mm)



Dual Dimensions: $\frac{\text{Inches}}{\text{Millimeters}}$



Environment

| | | | |
|---|---|--|---|
| Rated Insulation Voltage | Conforming to IEC 947, VDE 0110 gr C, BS 5424, CSA 22-2n°14, UL 508 | 690 V | |
| Conforming to Standards | | IEC 947, NF C 64-110, VDE 0660, BS 5424 | |
| Approvals | | UL, CSA | |
| Protective treatment | Conforming to IEC 68 (DIN 50015) | "TC" (Klimafest, Climateproof) | |
| Degree of Protection | Conforming to VDE 0106 | Protection against direct finger contact | |
| Ambient air temperature around the device | Storage | -50°C to +70°C (-76°F to 158°F) | |
| | Operation | -20°C to +50°C (14°F to 122°F) | |
| Maximum operating altitude | Without derating | 6252 feet (2000 m) | |
| Operating position | Vertical Axis | Horizontal Axis | |
| |  |  | |
| | Without derating | Without derating With derating With derating | |
| Cabling, screw clamp terminals | Solid conductor | Minimum | Maximum |
| | | #16 AWG 1 x 1.5 mm ² or 2 x 1.5 mm ² | #16 AWG 1 x 6 mm ² or 2 x 4 mm ² |
| | | #20 AWG 1 x 0.5 mm ² or 2 x 0.35 mm ² | #22 AWG 1 x 6 mm ² or 2 x 2.5 mm ² |
| | Flexible cable with cable end | #22 AWG 1 x 0.35 mm ² or 2 x 0.35 mm ² | #16 AWG 1 x 6 mm ² or 2 x 1.5 mm ² |
| Tightening Torque | Pozidriv n° 1 head | 7.08 lbf-in (0.8 Nm) | |

Control Circuit Characteristics

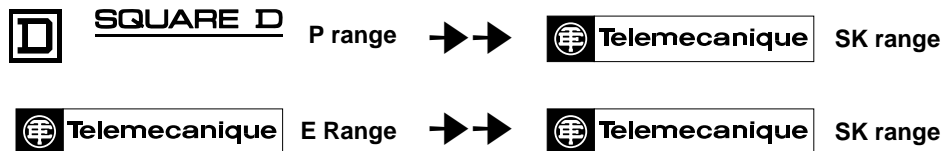
| Type | | CA2SKE |
|--|--|------------|
| Related control circuit voltage (Uc) | | 24-400 V |
| Control voltage limits ≤ 122 °F (50°C) single voltage coil | For operation | 0.85-1.1Uc |
| | For drop-out | ≥0.20Uc |
| Average coil consumption at 68 °F (20 °C) and at Uc | Inrush | 23 VA |
| | Sealed | 4.9 VA |
| Heat Dissipation | | 1.5 W |
| Operating time at 20 °C and at Uc | Between coil energization and: - closing of the N/O contacts | 8-16 ms |
| | Between coil de-energization and: - opening of the N/O contacts | 8-10 ms |
| Maximum operating rate | In operating cycles per hour | 1200 |
| Mechanical durability at Uc In millions of operating cycles | 50/60 Hz coil | 10 |



| Operational power of contacts conforming to IEC 947 | AC supply, category AC-15 | | | | | | |
|--|---------------------------|------|------|---------|---------|---------|-------|
| | V | 24 | 48 | 110/127 | 220/230 | 380/400 | 440 |
| 1 million operating cycles | VA | 48 | 96 | 240 | 440 | 800 | 880 |
| 3 million operating cycles | VA | 17 | 34 | 86 | 158 | 288 | 317 |
| 10 million operating cycles | VA | 7 | 14 | 36 | 66 | 120 | 132 |
| Occasional making capacity | VA | 1000 | 2050 | 5000 | 10000 | 14000 | 13000 |





Alternating Relays SKE

Conversion Table



|  SQUARE D P range | Composition |  Telemecanique SK range |
|---|----------------|---|
| Mini-contactors | | |
| PC110E | 3 P + N/O aux. | LC1SK0600.. + LA1SK10 |
| PC101E | 3 P + N/C aux. | LC1SK0600.. + LA1SK01 |
| Mini-contactors for modular panels | | |
| PC310EN | 3 P + N/O aux. | LC1SKGC310.. |
| PC301EN | 3 P + N/C aux. | LC1SKGC301.. |
| PCS100EN | 2 P | LC1SKGC200.. |
| Mini-control relays | | |
| PR120E | 2 N/O | CA2SK20.. |
| PR111E | 1 N/O + 1 N/C | CA2SK11.. |
| PRD120E | 2 N/O | CA3SK20.. |
| PRD111E | 1 N/O + 1 N/C | CA3SK11.. |
| Mini-control relay with alternating contacts | | |
| PHA | 2 N/O | CA2SKE20.. |
| Instantaneous auxiliary contact blocks | | |
| PV11 | 1 N/O + 1 N/C | LA1SK11 |
| PV20 | 2 N/O | LA1SK20 |
| PV02 | 2 N/C | LA1SK02 |
| Suppressor module | | |
| PZV48 | 24-48 VAC/DC | LA4SK1E |
| PZV250 | 110-250 VAC/DC | LA4SK1U |
| PZD | 24-250 VDC | LA4SK1U |

|  Telemecanique E range | Composition |  Telemecanique SK range |
|--|-----------------------|---|
| Mini-contactors | | |
| LC1EC03.. and LC1EE03.. | 3 P + N/O aux. | LC1SKGC310.. |
| LC1EC09.. and LC1EE09.. | 3 P + N/C aux. | LC1SKGC301.. |
| | 4 P | LC1SKGC400.. |
| LC1EC08.. and LC1EE08.. | 2 P + 2 N/C main pole | |