



### Main

|  |  |
|--|--|
| Range of product   | Harmony K  |
| Product or component type                                | Complete cam switch  |
| Component name   | K1   |
| [I <sub>th</sub> ] conventional free air thermal current | 12 A   |
| Mounting location  | Front  |
| Fixing mode  | Ø 22 mm hole   |
| Cam switch head type                                     | With front plate 45 x 45 mm                                  |
| Type of operator   | Black handle, length = 35 mm                                 |
| Rotary handle padlocking                                 | Without  |
| Presentation of legend                                   | With metallic legend, 0 - 1 black marking                    |
| Cam switch function                                      | Switch   |
| Return   | Without  |
| Off position   | With Off position  |
| Poles description  | 2P   |
| Switching positions                                      | Right: 0° - 45°  |
| IP degree of protection                                  | IP65 conforming to IEC 529<br>IP65 conforming to NF C 20-010 |

### Complementary

|   |   |
|---|---|
| Switching angle   | 45 °  |
| [U <sub>i</sub> ] rated insulation voltage                | 690 V (pollution degree 3) conforming to IEC 60947-1  |
| [I <sub>the</sub> ] conventional enclosed thermal current | 10 A  |
| Rated operational power in W                              | 10500 W AC-21, 500...660 V 3 phases conforming to IEC 947-3<br>1100 W AC-3, 230 V 3 phases conforming to IEC 947-3<br>1500 W AC-23A, 230 V 3 phases conforming to IEC 947-3<br>1500 W AC-3, 400 V 1 phase conforming to IEC 947-3<br>1500 W AC-3, 400 V 3 phases conforming to IEC 947-3<br>1500 W AC-3, 500 V 3 phases conforming to IEC 947-3 |

|  |  |
|--|--|
|  | 1500 W AC-3, 690 V 3 phases conforming to IEC 947-3<br>2200 W AC-23A, 400 V 3 phases conforming to IEC 947-3<br>2200 W AC-23A, 500 V 3 phases conforming to IEC 947-3<br>2200 W AC-23A, 690 V 3 phases conforming to IEC 947-3<br>4800 W AC-21, 230 V 3 phases conforming to IEC 947-3<br>600 W AC-3, 230 V 1 phase conforming to IEC 947-3<br>8300 W AC-21, 400 V 3 phases conforming to IEC 947-3  |
| [Ie] rated operational current AC      | 1.8 A at 690 V AC-3 3 phases conforming to IEC 947-3<br>2.8 A at 500 V AC-3 3 phases conforming to IEC 947-3<br>2.8 A at 690 V AC-23A 3 phases conforming to IEC 947-3<br>3.3 A at 400 V AC-3 3 phases conforming to IEC 947-3<br>3.8 A at 500 V AC-23A 3 phases conforming to IEC 947-3<br>4.6 A at 230 V AC-3 3 phases conforming to IEC 947-3<br>4.8 A at 400 V AC-23A 3 phases conforming to IEC 947-3<br>5.6 A at 230 V AC-23A 3 phases conforming to IEC 947-3<br>1 A at 500 V AC-15 conforming to IEC 947-5-1<br>2 A at 400 V AC-15 conforming to IEC 947-5-1<br>3 A at 230 V AC-15 conforming to IEC 947-5-1 |
| Electrical durability                  | 1000000 cycles AC-15<br>1000000 cycles AC-21<br>500000 cycles AC-23<br>500000 cycles AC-3  |
| Maximum operating rate                 | 8333 cyc/mn AC-15<br>2.5 cyc/mn AC-21<br>2.5 cyc/mn AC-23<br>2.5 cyc/mn AC-3   |
| Short-circuit current                  | 10000 A  |
| Short-circuit protection               | 16 A cartridge fuse, type gG   |
| [Uimp] rated impulse withstand voltage | 4 kV in isolating function<br>6 kV conforming to IEC 947-1   |
| Contact operation                      | Slow-break   |
| Positive opening                       | With   |
| Electrical connection                  | Captive screw clamp terminals flexible, clamping capacity: 2 x 1.5 mm <sup>2</sup><br>Captive screw clamp terminals solid, clamping capacity: 1 x 2.5 mm <sup>2</sup>  |
| Mechanical durability                  | 1000000 cycles   |
| CAD overall width                      | 45 mm  |
| CAD overall height                     | 50 mm  |
| CAD overall depth                      | 49 mm  |
| Net weight                             | 0.133 kg   |

## Environment

|                                       |   |
|---------------------------------------|---|
| Standards                             | EN/IEC 60947-3 for power circuit<br>EN/IEC 60947-5-1 for control circuit<br>CENELEC EN 50013                                  |
| Product certifications                | CSA 240 V 3 hp 3 phases 2 -pole(s)<br>UL 240 V 0.33 hp 1 phase 2 -pole(s)<br>CSA 240 V 1 hp 1 phase<br>UL 240 V 1 hp 3 phases |
| Protective treatment                  | TC  |
| Ambient air temperature for operation | -25...55 °C   |
| Ambient air temperature for storage   | -40...70 °C   |
| Shock resistance                      | 30 gn conforming to IEC 68-2-27   |
| Vibration resistance                  | 5 gn conforming to IEC 68-2-6 (f = 10...150 Hz)   |
| Overvoltage category                  | Class II conforming to IEC 536<br>Class II conforming to NF C 20-030  |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Weight             | 147 g   |
| Package 1 Height             | 11.1 cm |

|                              |        |
|------------------------------|--------|
| Package 1 width              | 6.5 cm |
| Package 1 Length             | 6.5 cm |
| Unit Type of Package 2       | S02    |
| Number of Units in Package 2 | 20     |
| Package 2 Weight             | 3.4 kg |
| Package 2 Height             | 15 cm  |
| Package 2 width              | 30 cm  |
| Package 2 Length             | 40 cm  |

### Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                           |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

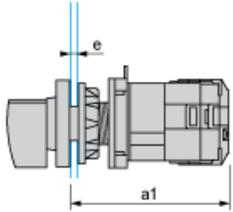


---

Operating Head and Body with Plastic Base

---

Front Mounting by  $\varnothing 22$  mm/0.87 in. Hole



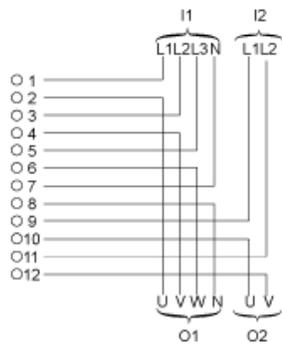
a1 70.5 mm/2.78 in.  
e support panel thickness 1 mm to 6 mm./0.039 in. to 0.24 in.



Link Positions (Factory Mounted)

Diagram for 1 to 6-pole Switches

Select the number of poles according to the product characteristics.



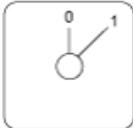
- I1 Input 1
- I2 Input 2
- O1 Output 1
- O2 Output 2



---

Marking

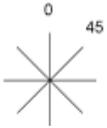
---



---

Angular Position of Switch

---



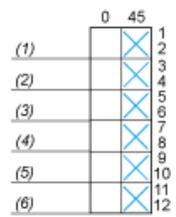
---

Switching Program

---

Diagram for 1 to 6-pole Switches

Select the number of poles according to the product characteristics.



- (1) 1-pole
- (2) 2-pole
- (3) 3-pole
- (4) 4-pole
- (5) 5-pole
- (6) 6-pole



---

Convention Used for Switching Program Representation

---

Contact closed

Contact closed in 2 positions and maintained between the 2 positions

Sealed assembly for auto-maintain control

Overlapping contacts

Spring return position: for a switching angle of  $90^\circ$ , spring return is over  $30^\circ$  after the last position (for a maximum of 3 simultaneous contacts).

Example:

