



## Main

|  |                               |
|--|-------------------------------|
| Range of product   | Harmony K                     |
| Product or component type                                | Cam switch body               |
| Component name   | K1                            |
| [I <sub>th</sub> ] conventional free air thermal current | 12 A                          |
| Sub-assembly composition                                 | Contact blocks + fixing plate |
| Cam switch function                                      | Stepping switch               |
| Off position   | Without Off position          |
| Poles description  | 3P                            |
| Switching positions                                      | Right: 0° - 45° - 90° - 135°  |
| Mounting location  | Front                         |
| Fixing mode  | Ø 22 mm hole                  |
| Bezel material   | Plastic                       |

## Complementary

|   |  |
|---|--|
| Number of steps   | 4  |
| 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<br>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 |
| [I <sub>e</sub> ] 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                                    | 2.5 Cyc/Mn AC-21<br>2.5 Cyc/Mn AC-23<br>2.5 Cyc/Mn AC-3<br>8.333 cyc/mn AC-15  |
| 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  |
| Net weight                             | 0.225 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 1 hp 1 phase<br>CSA 240 V 3 hp 3 phases 2 -pole(s)<br>UL 240 V 1 hp 3 phases<br>UL 240 V 0.33 hp 1 phase 2 -pole(s) |
| 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)   |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 5.6 cm   |
| Package 1 Width              | 6.5 cm   |
| Package 1 Length             | 11.0 cm  |
| Package 1 Weight             | 208.0 g  |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 10       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 15.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 2.309 kg |

## Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| REACH Regulation           |  <a href="#">REACH Declaration</a>  |
| REACH free of SVHC         | Yes  |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free     | Yes  |
| Mercury free               | Yes  |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>   |
| RoHS exemption information |  <a href="#">Yes</a>  |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a>  |
| Circularity Profile        | No need of specific recycling operations   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins  |

## Contractual warranty

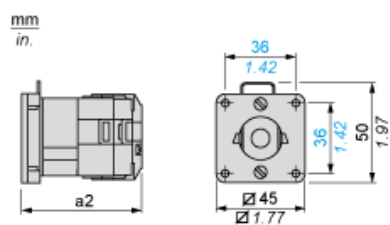
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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Body with Plastic Base

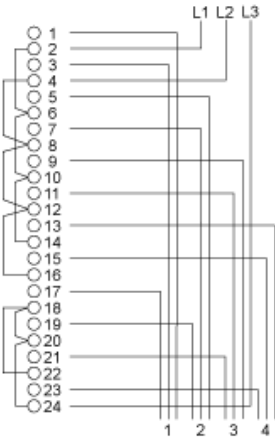
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Front Mounting by  $\varnothing 22$  mm/0.87 in. Hole

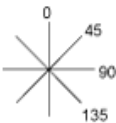


a2 99 mm/3.90 in.

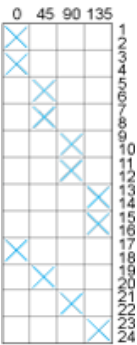
Link Positions (Factory Mounted)



Angular Position of Switch



Switching Program



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°, spring return is over 30° after the last position (for a maximum of 3 simultaneous contacts).

Example:

