



## Main

|   |  |
|---|--|
| Range of product                            | Harmony K  |
| Product or component type                   | Complete cam switch  |
| Component name                              | K1   |
| [Ith] conventional free air thermal current | 12 A   |
| Mounting location                           | Front  |
| Fixing mode                                 | Multifixing  |
| 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 - L1N - L2N - L3N - L1L2 - L2L3 - L3L1 black marking |
| Cam switch function                         | Voltmeter switch   |
| Return                                      | Without  |
| Type of measurement                         | Between 3 phases and between each of the 3 phases and neutral                |
| Off position                                | With Off position  |
| Switching positions                         | Left: 0° - 315° - 270° - 225°<br>Right: 0° - 45° - 90° - 135°                |
| IP degree of protection                     | IP40 conforming to IEC 529<br>IP40 conforming to NF C 20-010                 |

## Complementary

|  |  |
|--|--|
| Switching angle                              | 45 °   |
| [Ui] rated insulation voltage                | 690 V (pollution degree 3) conforming to IEC 60947-1   |
| [Ithe] 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 |
| [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                 | 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  |
| CAD overall width                      | 45 mm   |
| CAD overall height                     | 45 mm   |
| CAD overall depth                      | 97 mm   |
| Net weight                             | 0.17 kg   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | EN 60947-3 for power circuit<br>EN 60947-5-1 for control circuit<br>IEC 60947-3 for power circuit<br>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)  |
| 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             | 179 g     |
| Package 1 Height             | 6.7 cm    |
| Package 1 width              | 6.7 cm    |
| Package 1 Length             | 11 cm     |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 40        |
| Package 2 Weight             | 7.563 kg  |
| Package 2 Height             | 30 cm     |
| Package 2 width              | 30 cm     |
| Package 2 Length             | 40 cm     |
| Unit Type of Package 3       | P06       |
| Number of Units in Package 3 | 320       |
| Package 3 Weight             | 71.804 kg |
| Package 3 Height             | 80 cm     |
| Package 3 width              | 80 cm     |
| Package 3 Length             | 60 cm     |

## 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   |
| 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

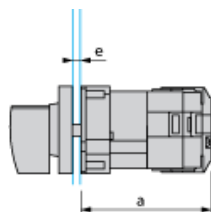
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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Operating Head and Body

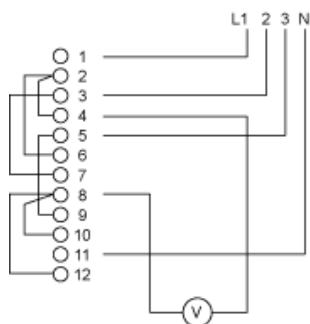
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Front Mounting "Multi-Fixing"



- a 73 mm/2.87 in.
- e support panel thickness 1 mm to 6 mm./0.039 in. to 0.24 in.

## Link Positions (Factory Mounted)



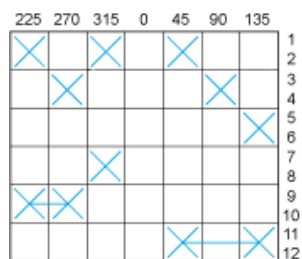
## Marking



## 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:

