



### Main

|   |  |
|---|--|
| Range of product                            | Harmony K  |
| Product or component type                   | Complete cam switch  |
| Component name                              | K1   |
| [lth] 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                           | 3P   |
| Switching positions                         | Right: 0° - 90°  |
| IP degree of protection                     | IP65 conforming to IEC 529<br>IP65 conforming to NF C 20-010 |

### Complementary

|  |   |
|--|---|
| Switching angle                              | 90 °  |
| [Ui] rated insulation voltage                | 690 V degree of pollution 3 conforming to IEC 60947-1   |
| [lthe] conventional enclosed thermal current | 10 A  |
| Rated operational power in W                 | 1500 W AC-3 / 500 V 3 phases conforming to IEC 60947-3<br>10500 W AC-21 / 500...660 V 3 phases conforming to IEC 60947-3<br>1500 W AC-3 / 400 V 1 phase conforming to IEC 60947-3<br>2200 W AC-23A / 690 V 3 phases conforming to IEC 60947-3<br>1500 W AC-23A / 230 V 3 phases conforming to IEC 60947-3<br>2200 W AC-23A / 500 V 3 phases conforming to IEC 60947-3<br>2200 W AC-23A / 400 V 3 phases conforming to IEC 60947-3<br>4800 W AC-21 / 230 V 3 phases conforming to IEC 60947-3<br>1100 W AC-3 / 230 V 3 phases conforming to IEC 60947-3<br>600 W AC-3 / 230 V 1 phase conforming to IEC 60947-3<br>1500 W AC-3 / 400 V 3 phases conforming to IEC 60947-3<br>8300 W AC-21 / 400 V 3 phases conforming to IEC 60947-3<br>1500 W AC-3 / 690 V 3 phases conforming to IEC 60947-3 |
| [Ie] rated operational current AC            | 1 A at 500 V AC-15 conforming to IEC 60947-5-1<br>2 A at 400 V AC-15 conforming to IEC 60947-5-1<br>3 A at 230 V AC-15 conforming to IEC 60947-5-1<br>1.8 A at 690 V AC-3 3 phases conforming to IEC 60947-3<br>2.8 A at 500 V AC-3 3 phases conforming to IEC 60947-3<br>2.8 A at 690 V AC-23A 3 phases conforming to IEC 60947-3<br>3.3 A at 400 V AC-3 3 phases conforming to IEC 60947-3<br>3.8 A at 500 V AC-23A 3 phases conforming to IEC 60947-3<br>4.6 A at 230 V AC-3 3 phases conforming to IEC 60947-3<br>4.8 A at 400 V AC-23A 3 phases conforming to IEC 60947-3<br>5.6 A at 230 V AC-23A 3 phases conforming to IEC 60947-3  |
| Electrical durability                        | 1000000 cycles AC-15<br>1000000 cycles AC-21<br>500000 cycles AC-23<br>500000 cycles AC-3   |
| 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 by cartridge fuse, type gG   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|  |   |
|--|---|
| [Uimp] rated impulse withstand voltage | 4 kV in isolating function<br>6 kV conforming to IEC 60947-1  |
| Contact operation                      | Slow-break  |
| Positive opening                       | With  |
| Electrical connection                  | Captive screw clamp terminals flexible, 2 x 1.5 mm <sup>2</sup><br>Captive screw clamp terminals solid, 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                      | 59 mm   |
| Product weight                         | 0.155 kg  |

## Environment

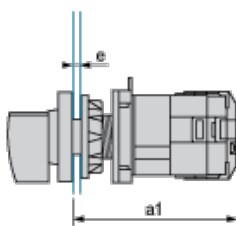
|                                       |  |
|---------------------------------------|--|
| standards                             | CENELEC EN 50013<br>EN 60947-3 for power circuit<br>EN 60947-5-1 for control circuit<br>IEC 60947-3 for power circuit<br>IEC 60947-5-1 for control circuit |
| product certifications                | 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, 10...150 Hz conforming to IEC 68-2-6   |
| overvoltage category                  | Class II conforming to IEC 536<br>Class II conforming to NF C 20-030   |

## Contractual warranty

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

## Operating Head and Body with Plastic Base

### Front Mounting by Ø 22 mm/0.87 in. Hole



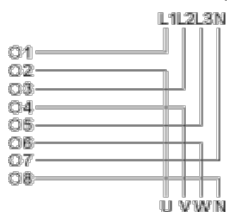
a1 80.5 mm/3.17 in.

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

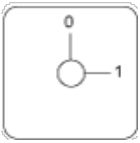
## Link Positions (Factory Mounted)

### Diagram for 2 to 4-pole Switches

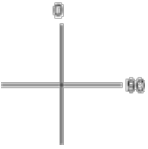
Select the number of poles according to the product characteristics.



## Marking



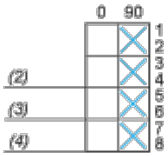
## Angular Position of Switch



## Switching Program

### Diagram for 2 to 4-pole Switches

Select the number of poles according to the product characteristics.



- (2) 2-pole
- (3) 3-pole
- (4) 4-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°, spring return is over 30° after the last position (for a maximum of 3 simultaneous contacts).

Example:

