

# K1C003NLH

Cam stepping switch, Harmony K, multifixing, plastic, 1 pole, 3 steps, 45°, 12A, 45x45mm, metallic legend, marked 1/2/3, 35mm black handle



## 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  | 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, 1 - 2 - 3 black marking |
| Cam switch function                                      | Stepping switch                               |
| Return   | Without                                       |
| Off position   | Without Off position                          |
| Poles description  | 1P  |
| Switching positions                                      | Right: 0° - 45° - 90°                         |
| IP degree of protection                                  | IP40 conforming to IEC 60529                  |

## Complementary

|   |  |
|---|--|
| Number of steps   | 3  |
| 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   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance 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.

|  |   |
|--|---|
| 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                      | 87 mm   |
| Net weight                             | 0.135 kg  |

## Environment

|                                       |   |
|---------------------------------------|---|
| Standards                             | IEC 60947-3 for power circuit<br>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 Height             | 6.500 cm  |
| Package 1 Width              | 6.500 cm  |
| Package 1 Length             | 11.000 cm |
| Package 1 Weight             | 148.000 g |
| Unit Type of Package 2       | S01       |
| Number of Units in Package 2 | 10        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 15.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 1.611 kg  |
| Unit Type of Package 3       | P06       |
| Number of Units in Package 3 | 320       |
| Package 3 Height             | 75.000 cm |
| Package 3 Width              | 80.000 cm |
| Package 3 Length             | 60.000 cm |
| Package 3 Weight             | 59.552 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

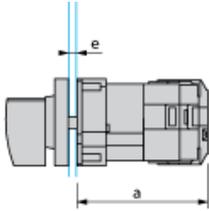
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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Operating Head and Body

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Front Mounting "Multi-Fixing"

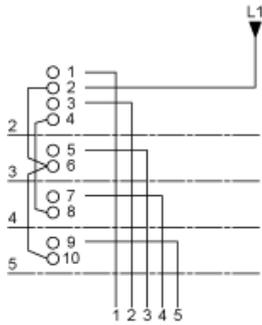


- a 63 mm/2.48 in.
- e support panel thickness 1 mm to 6 mm./0.039 in. to 0.24 in.

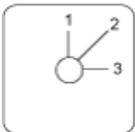
Link Positions (Factory Mounted)

Diagram for 2 to 5-step Stepping Switches

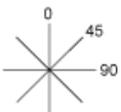
Select the number of steps according to the product characteristics.



Marking



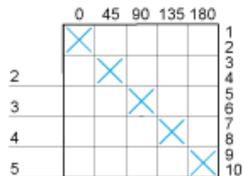
Angular Position of Switch



Switching Program

Diagram for 2 to 5-step Stepping Switches

Select the number of steps according to the product characteristics.



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:

