

# K2H014NCH

cam stepping switch - 2-pole - 45° - 20 A - for Ø 22 mm



## Main

|                                             |                                                              |
|---------------------------------------------|--------------------------------------------------------------|
| Range of product                            | Harmony K                                                    |
| Product or component type                   | Complete cam switch                                          |
| Component name                              | K2                                                           |
| [Ith] conventional free air thermal current | 20 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, 1 - 2 - 3 - 4 black marking            |
| Cam switch function                         | Stepping switch                                              |
| Return                                      | Without                                                      |
| Off position                                | Without Off position                                         |
| Poles description                           | 2P                                                           |
| Switching positions                         | Right: 0° - 45° - 90° - 135°                                 |
| IP degree of protection                     | IP65 conforming to IEC 529<br>IP65 conforming to NF C 20-010 |

## Complementary

|                                              |                                                                                         |
|----------------------------------------------|-----------------------------------------------------------------------------------------|
| Number of steps                              | 4                                                                                       |
| Switching angle                              | 45 °                                                                                    |
| [Ui] rated insulation voltage                | 690 V (pollution degree 3) conforming to IEC 60947-1                                    |
| [Ithe] conventional enclosed thermal current | 16 A                                                                                    |
| Electrical durability                        | 200000 cycles AC-23<br>200000 cycles AC-3<br>600000 cycles AC-15<br>600000 cycles AC-21 |

|                                        |                                                                                                                                                                       |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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               | 20 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                      | 79 mm                                                                                                                                                                 |
| Product weight                         | 0.215 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 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                                                                                       |

## 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>                                                                               |
| 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

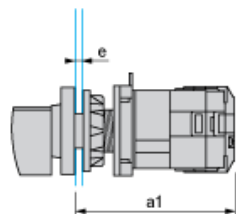
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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Operating Head and Body with Plastic Base

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

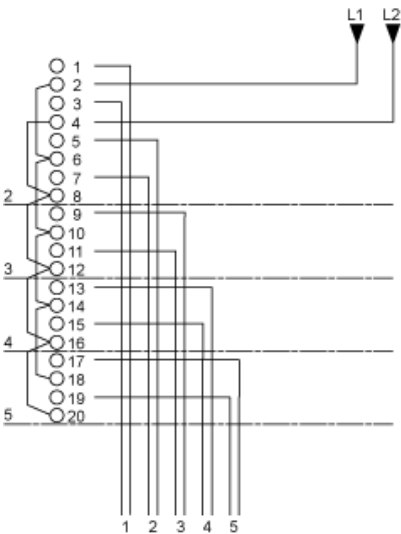


a1 100.5 mm/3.96 in.  
e support panel thickness 1 mm to 6 mm./0.039 in. to 0.24 in.

Link Positions (Factory Mounted)

Diagram for 2 to 5-step Stepping Switches

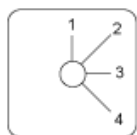
Select the number of steps according to the product characteristics.



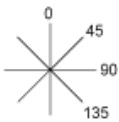
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## Marking

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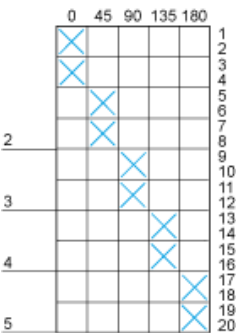
Angular Position of Switch



Switching Program

Diagram for 2 to 5-step Stepping Switches

Select the number of steps according to the product characteristics.



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### Convention Used for Switching Program Representation

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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:

