



### Main

|                                             |                                                              |
|---------------------------------------------|--------------------------------------------------------------|
| Range of product                            | Harmony K                                                    |
| Product or component type                   | Complete cam switch                                          |
| Component name                              | K2                                                           |
| [Ith] conventional free air thermal current | 20 A                                                         |
| Product mounting                            | Front mounting                                               |
| 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 black marking                    |
| Cam switch function                         | Stepping switch                                              |
| Return                                      | Without                                                      |
| Off position                                | Without Off position                                         |
| Poles description                           | 1P                                                           |
| Switching positions                         | Right: 0° - 45°                                              |
| IP degree of protection                     | IP40 conforming to NF C 20-010<br>IP40 conforming to IEC 529 |

### Complementary

|                                              |                                                                                                                                 |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Number of steps                              | 2                                                                                                                               |
| Switching angle                              | 45 °                                                                                                                            |
| [Ui] rated insulation voltage                | 690 V degree of pollution 3 conforming to IEC 60947-1                                                                           |
| [Ithe] conventional enclosed thermal current | 16 A                                                                                                                            |
| Electrical durability                        | 600000 cycles AC-21<br>600000 cycles AC-15<br>200000 cycles AC-3<br>200000 cycles AC-23                                         |
| Operating rate                               | 8.333 cyc/mn AC-15<br>2.5 cyc/mn AC-3<br>2.5 cyc/mn AC-23<br>2.5 cyc/mn AC-21                                                   |
| Short-circuit current                        | 10000 A                                                                                                                         |
| Short circuit protection                     | 20 A by cartridge fuse, type gG                                                                                                 |
| [Uimp] rated impulse withstand voltage       | 6 kV conforming to IEC 947-1<br>4 kV in isolating function                                                                      |
| Contacts operation                           | Slow-break                                                                                                                      |
| Positive opening                             | With                                                                                                                            |
| Electrical connection                        | Captive screw clamp terminals solid, 1 x 2.5 mm <sup>2</sup><br>Captive screw clamp terminals flexible, 2 x 1.5 mm <sup>2</sup> |
| Mechanical durability                        | 1000000 cycles                                                                                                                  |
| CAD overall width                            | 45 mm                                                                                                                           |
| CAD overall height                           | 45 mm                                                                                                                           |
| CAD overall depth                            | 77 mm                                                                                                                           |
| Product weight                               | 0.115 kg                                                                                                                        |

## Environment

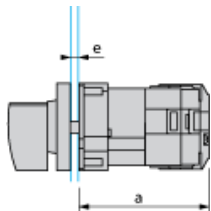
|                                            |                                                                                                                                                            |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                                  | IEC 60947-5-1 for control circuit<br>IEC 60947-3 for power circuit<br>EN 60947-5-1 for control circuit<br>EN 60947-3 for power circuit<br>CENELEC EN 50013 |
| Product certifications                     | UL 240 V 0.33 hp 1 phase 2 -pole(s)<br>UL 240 V 1 hp 3 phases<br>CSA 240 V 3 hp 3 phases 2 -pole(s)<br>CSA 240 V 1 hp 1 phase                              |
| 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                                                                                                                 |
| Class of protection against electric shock | Class II conforming to NF C 20-030<br>Class II conforming to IEC 536                                                                                       |

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Operating Head and Body

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Front Mounting "Multi-Fixing"

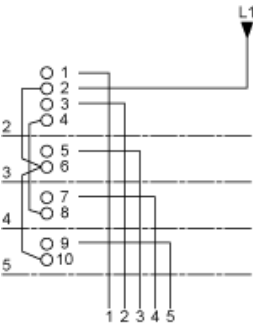


- a 53 mm/2.09 in.  
e support panel thickness 1 mm to 6 mm./0.039 in. to 0.24 in.

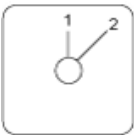
Link Positions (Factory Mounted)

Diagram for 2 to 5-step Stepping Switches

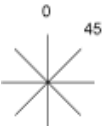
Select the number of steps according to the product characteristics.



Marking



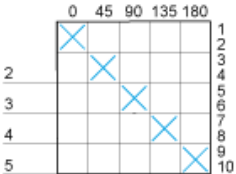
Angular Position of Switch



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  $90^\circ$ , spring return is over  $30^\circ$  after the last position (for a maximum of 3 simultaneous contacts).

Example:

