



## Main

|                                                          |                                                              |
|----------------------------------------------------------|--------------------------------------------------------------|
| Range of product                                         | Harmony K                                                    |
| Product or component type                                | Complete cam switch                                          |
| Component name                                           | K2                                                           |
| [I <sub>th</sub> ] conventional free air thermal current | 20 A                                                         |
| Product mounting                                         | Front mounting                                               |
| 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                                        | 1P                                                           |
| Switching positions                                      | Right: 0° - 45°                                              |
| IP degree of protection                                  | IP65 conforming to IEC 529<br>IP65 conforming to NF C 20-010 |

## Complementary

|                                                           |                                                                                                                                 |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Switching angle                                           | 45 °                                                                                                                            |
| [U <sub>i</sub> ] rated insulation voltage                | 690 V degree of pollution 3 conforming to IEC 60947-1                                                                           |
| [I <sub>the</sub> ] 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                                         |
| 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 by cartridge fuse, type gG                                                                                                 |
| [U <sub>imp</sub> ] rated impulse withstand voltage       | 4 kV in isolating function<br>6 kV conforming to IEC 947-1                                                                      |
| Contacts 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                                         | 49 mm                                                                                                                           |
| Product weight                                            | 0.123 kg                                                                                                                        |

## Environment

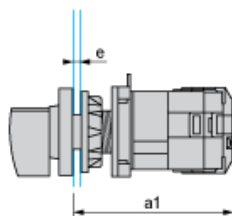
|                                            |                                                                                                                               |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Standards                                  | CENELEC EN 50013<br>EN/IEC 60947-3 for power circuit<br>EN/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                                                                                    |
| Class of protection against electric shock | Class II conforming to IEC 536<br>Class II conforming to NF C 20-030                                                          |
| RoHS EUR status                            | Compliant                                                                                                                     |
| RoHS EUR conformity date                   | 0910                                                                                                                          |

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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



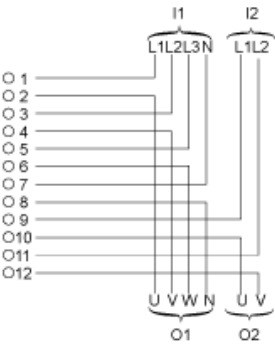
a1 70.5 mm/2.78 in.

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

Link Positions (Factory Mounted)

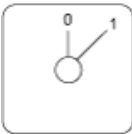
Diagram for 1 to 6-pole Switches

Select the number of poles according to the product characteristics.



- I1    Input 1
- I2    Input 2
- O1    Output 1
- O2    Output 2

Marking



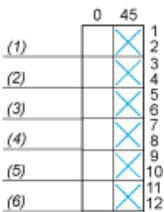
Angular Position of Switch



Switching Program

Diagram for 1 to 6-pole Switches

Select the number of poles according to the product characteristics.



- (1)    1-pole
- (2)    2-pole
- (3)    3-pole
- (4)    4-pole
- (5)    5-pole
- (6)    6-pole

## 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:

