# Product data sheet
## Characteristics

# K1D012N
## body for stepping switch - 2-pole - 45° - 12 A - for Ø 22 mm

### Main

| | |
|---|---|
| Range of product | Harmony K |
| Product or component type | Cam switch body |
| Component name | K1 |
| [Ith] conventional free air thermal current | 12 A |
| Sub-assembly composition | Contact blocks + fixing plate |
| Cam switch function | Stepping switch |
| Off position | Without Off position |
| Poles description | 2P |
| Switching positions | Right: 0° - 45° |
| Product mounting | Front mounting |
| Fixing mode | Ø 22 mm hole |
| Bezel material | Plastic |

### 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 | 10 A |
| Rated operational power in W | 8300 W AC-21 / 400 V 3 phases conforming to IEC 947-3<br>600 W AC-3 / 230 V 1 phase conforming to IEC 947-3<br>4800 W AC-21 / 230 V 3 phases conforming to IEC 947-3<br>2200 W AC-23A / 690 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 / 400 V 3 phases conforming to IEC 947-3<br>1500 W AC-3 / 690 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 / 400 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-23A / 230 V 3 phases conforming to IEC 947-3<br>1100 W AC-3 / 230 V 3 phases conforming to IEC 947-3<br>10500 W AC-21 / 500 - 660 V 3 phases conforming to IEC 947-3 |
| [Ie] rated operational current AC | 5.6 A at 230 V AC-23A 3 phases conforming to IEC 947-3<br>4.8 A at 400 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>3.8 A at 500 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>2.8 A at 690 V AC-23A 3 phases conforming to IEC 947-3<br>2.8 A at 500 V AC-3 3 phases conforming to IEC 947-3<br>1.8 A at 690 V AC-3 3 phases conforming to IEC 947-3<br>3 A at 230 V AC-15 conforming to IEC 947-5-1<br>2 A at 400 V AC-15 conforming to IEC 947-5-1<br>1 A at 500 V AC-15 conforming to IEC 947-5-1 |
| Electrical durability | 500000 cycles AC-3<br>500000 cycles AC-23<br>1000000 cycles AC-21<br>1000000 cycles AC-15 |
| 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 | 16 A by cartridge fuse, type gG |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 947-1<br>4 kV in isolating function |

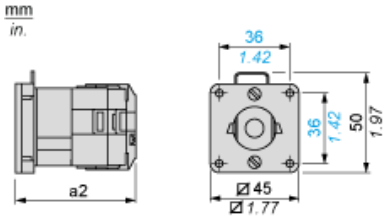
| | |
|---|---|
| Contacts operation | Slow-break |
| Positive opening | With |
| Electrical connection | Captive screw clamp terminals solid, 1 x 2.5 mm²<br>Captive screw clamp terminals flexible, 2 x 1.5 mm² |
| Mechanical durability | 1000000 cycles |
| Product weight | 0.11 kg |

## Environment

| | |
|---|---|
| Standards | EN/IEC 60947-5-1 for control circuit<br>EN/IEC 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 |

## Body with Plastic Base

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

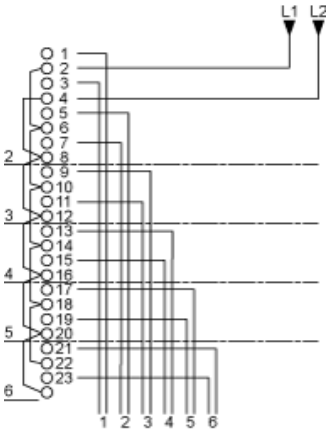



a2 59 mm/2.32 in.

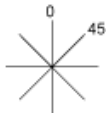
## Link Positions (Factory Mounted)

### Diagram for 2 to 6-step Stepping Switches

Select the number of steps according to the product characteristics.



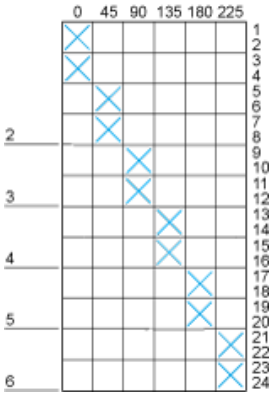

## Angular Position of Switch




## Switching Program

### Diagram for 2 to 6-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: