

# Product data sheet

Specifications



body for switch - 4-pole - 90° - 12 A  
- for Ø 22 mm

K1D004HX

⚠ Discontinued on: Jan 29, 2021

⚠ Discontinued

## 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                         | Switch                        |
| Off Position                                | With Off position             |
| Poles Description                           | 4P                            |
| Switching Positions                         | Right: 0° - 90°               |
| Mounting Location                           | Front                         |
| Fixing Mode                                 | Ø 22 mm hole                  |
| Bezel Material                              | Metal                         |

## Complementary

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switching Angle                              | 90 °                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Ui] Rated Insulation Voltage                | 690 V (pollution degree 3) conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Ithe] 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 |
| [Ie] 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                                                                                                                                   |

Disclaimer: 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

|                                        |                                                                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 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 mm²<br>Captive screw clamp terminals solid, clamping capacity: 1 x 2.5 mm² |
| Mechanical Durability                  | 1000000 cycles                                                                                                                                |
| Net Weight                             | 0.188 kg                                                                                                                                      |

## Environment

|                                       |                                                                                                                               |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | EN 60947-3 for power circuit<br>EN 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                                                          |

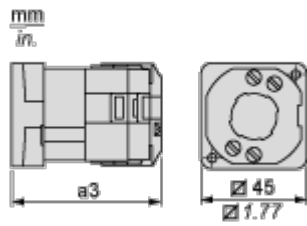
## Contractual warranty

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

Dimensions Drawings

Body with Metal Base, Secured by Needle Screws

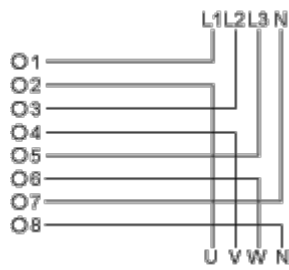
Front Mounting by Ø 22 mm/0.87 in. Hole



a3 65 mm/2.56 in.

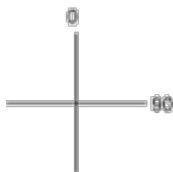
Technical Description

Link Positions (Factory Mounted)



Angular Position of Switch

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Switching Program

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| 0 | 90 |   |
|---|----|---|
|   | X  | 1 |
|   | X  | 2 |
|   | X  | 3 |
|   | X  | 4 |
|   | X  | 5 |
|   | X  | 6 |
|   | X  | 7 |
|   | X  | 8 |

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:

