

Product datasheet

Specifications



cam switch - 4-pole - 90° - 50 A - rear mounting

K50D504HP

⚠ Discontinued on: 1 Nov 2020

⚠ Discontinued

Main

| | |
|---|--|
| Range Of Product | Harmony K |
| Product Or Component Type | Complete cam switch |
| Component Name | K50 |
| [Ith] Conventional Free Air Thermal Current | 50 A |
| Product Mounting | Rear mounting |
| Fixing Mode | 4 holes |
| Cam Switch Head Type | With front plate 64 x 64 mm |
| Type Of Operator | Black handle |
| Rotary Handle Padlocking | Without |
| Presentation Of Legend | With metallic legend, OFF-ON black marking |
| Cam Switch Function | Switch |
| Return | Without |
| Off Position | With Off position |
| Poles Description | 4P |
| Switching Positions | Right: 0° - 90° |
| Ip Degree Of Protection | IP40 conforming to IEC 529 |

Complementary

| | |
|--|--|
| Switching Angle | 90 ° |
| [Ui] Rated Insulation Voltage | 690 V (pollution degree 3) conforming to EN 60947-1 |
| Short-Circuit Current | 5000 A |
| Short-Circuit Protection | 63 A cartridge fuse, type gG |
| [Uimp] Rated Impulse Withstand Voltage | 6 kV conforming to EN 947-1 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 6 mm² Captive screw clamp terminals solid, clamping capacity: 2 x 10 mm² |
| Tightening Torque | 2 N.m |

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

| | |
|--------------------------|---|
| Switching Capacity In Ma | 15000 mA DC at 120 V 2 contact(s) for inductive load (T = 50 ms) 15000 mA DC at 180 V 3 contact(s) for inductive load (T = 50 ms) 15000 mA DC at 60 V 1 contact(s) for inductive load (T = 50 ms) 20000 mA DC at 140 V 3 contact(s) for inductive load (T = 50 ms) 20000 mA DC at 48 V 1 contact(s) for inductive load (T = 50 ms) 20000 mA DC at 95 V 2 contact(s) for inductive load (T = 50 ms) 30000 mA DC at 30 V 1 contact(s) for inductive load (T = 50 ms) 30000 mA DC at 60 V 2 contact(s) for inductive load (T = 50 ms) 30000 mA DC at 90 V 3 contact(s) for inductive load (T = 50 ms) 3500 mA DC at 110 V 1 contact(s) for inductive load (T = 50 ms) 3500 mA DC at 220 V 2 contact(s) for inductive load (T = 50 ms) 3500 mA DC at 330 V 3 contact(s) for inductive load (T = 50 ms) 37000 mA DC at 120 V 2 contact(s) for resistive load (T = 1 ms) 37000 mA DC at 180 V 3 contact(s) for resistive load (T = 1 ms) 37000 mA DC at 60 V 1 contact(s) for resistive load (T = 1 ms) 40000 mA DC at 140 V 3 contact(s) for resistive load (T = 1 ms) 40000 mA DC at 24 V 1 contact(s) for inductive load (T = 50 ms) 40000 mA DC at 48 V 1 contact(s) for resistive load (T = 1 ms) 40000 mA DC at 48 V 2 contact(s) for inductive load (T = 50 ms) 40000 mA DC at 70 V 3 contact(s) for inductive load (T = 50 ms) 40000 mA DC at 95 V 2 contact(s) for resistive load (T = 1 ms) 50000 mA DC at 24 V 1 contact(s) for resistive load (T = 1 ms) 50000 mA DC at 48 V 2 contact(s) for resistive load (T = 1 ms) 50000 mA DC at 70 V 3 contact(s) for resistive load (T = 1 ms) |
| Mechanical Durability | 300000 cycles |
| Cad Overall Width | 64 mm |
| Cad Overall Height | 64 mm |
| Cad Overall Depth | 200 mm |
| Net Weight | 0.35 kg |

Environment

| | |
|---------------------------------------|---|
| Standards | EN/IEC 60947-3 |
| Product Certifications | CULus 120 V 3 hp 1 phase CULus 480 V 25 hp 3 phases CULus 240 V 7.5 hp 1 phase CULus 240 V 7.5 hp 3 phases |
| Protective Treatment | TC |
| Ambient Air Temperature For Operation | -25...55 °C |
| Ambient Air Temperature For Storage | -40...70 °C |
| Electrical Shock Protection Class | Class II conforming to IEC 60536 Class II conforming to NF C 20-030 |

Contractual warranty

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

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

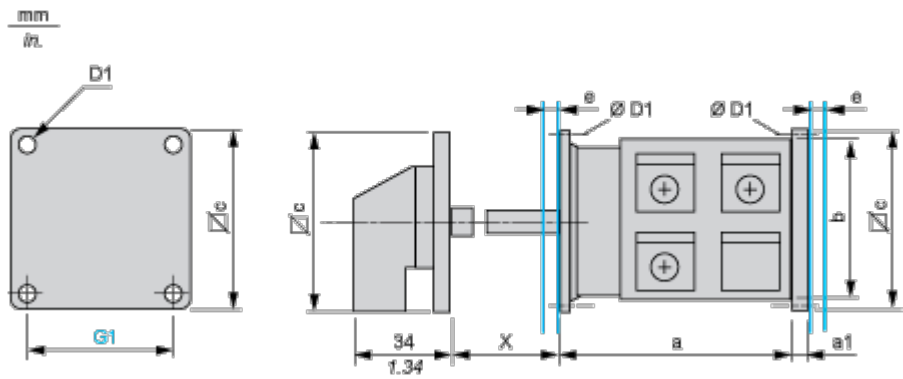
Well-being performance

| | | |
|-----------------------|---|-----|
| ✓ | Reach Free Of Svhc | |
| ✓ | Toxic Heavy Metal Free | |
| ✓ | Mercury Free | |
| ✓ | Rohs Exemption Information | Yes |
| | | |
| Reach Regulation | REACH Declaration | |
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration | |
| China Rohs Regulation | China RoHS declaration | |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins | |

Dimensions Drawings

Dimensions

Rear Mounting



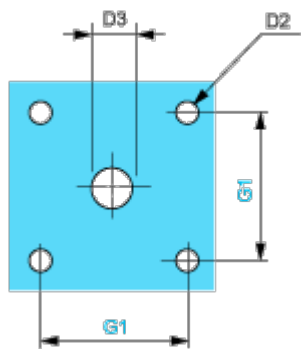
e support panel thickness 0.5 to 5.5 mm / 0.02 to 0.22 in in.

| a | | a1 | | b | | c | | D1 | | G1 | | X | |
|------|------|----|------|----|------|----|------|-----|------|----|------|----------|--------------|
| mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. |
| 63.3 | 2.49 | 6 | 0.24 | 60 | 2.36 | 64 | 2.52 | 4.1 | 0.16 | 48 | 1.89 | 78 to 97 | 3.07 to 3.82 |

Mounting and Clearance

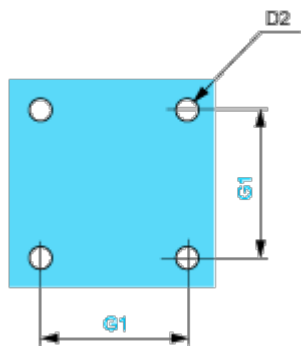
Panel Cut-Out

Front Mounting



| D2 | | D3 | | G1 | |
|-----|------|----|------|----|------|
| mm | in. | mm | in. | mm | in. |
| 4.5 | 0.18 | 10 | 0.39 | 48 | 1.89 |

Rear Mounting



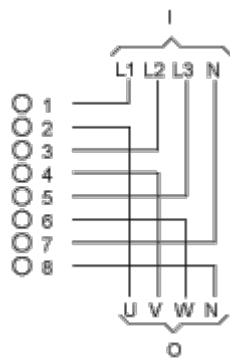
| D2 | | G1 | |
|-----|------|----|------|
| mm | in. | mm | in. |
| 4.5 | 0.18 | 48 | 1.89 |

Technical Description

Link Positions (Factory Mounted)

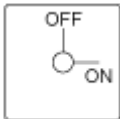
Diagram for 3 to 4-pole Switches

Select the number of poles according to the product characteristics



- I Input
- O Output

Marking



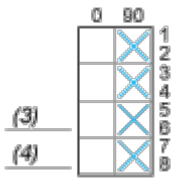
Angular Position of Switch



Switching Program

Diagram for 3 to 4-pole Switches

Select the number of poles according to the product characteristics



- (3) 3-pole
- (4) 4-pole

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:

