



## Main

|                                             |                                                              |
|---------------------------------------------|--------------------------------------------------------------|
| Range of product                            | Harmony K                                                    |
| Product or component type                   | Complete cam switch                                          |
| Component name                              | K150                                                         |
| [Ith] conventional free air thermal current | 150 A                                                        |
| Mounting location                           | Front                                                        |
| Fixing mode                                 | 4 holes                                                      |
| Cam switch head type                        | With front plate 88 x 88 mm                                  |
| Type of operator                            | Black handle                                                 |
| Rotary handle padlocking                    | Without                                                      |
| Presentation of legend                      | With metallic legend, 1 - 0 - 2 black marking                |
| Cam switch function                         | Changeover switch                                            |
| Return                                      | Without                                                      |
| Off position                                | With Off position                                            |
| Poles description                           | 4P                                                           |
| Switching positions                         | Right: 0° - 60°<br>Left: 0° - 300°                           |
| IP degree of protection                     | IP40 conforming to IEC 529<br>IP40 conforming to NF C 20-010 |

## Complementary

|                                        |                                                                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Switching angle                        | 60 °                                                                                                                                        |
| [Ui] rated insulation voltage          | 690 V (pollution degree 3) conforming to EN 60947-1<br>690 V (pollution degree 3) conforming to IEC 60947-1                                 |
| Short-circuit current                  | 25000 A                                                                                                                                     |
| Short-circuit protection               | 200 A cartridge fuse, type gG                                                                                                               |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to EN 947-1<br>6 kV conforming to IEC 947-1                                                                                 |
| Contact operation                      | Slow-break                                                                                                                                  |
| Positive opening                       | With                                                                                                                                        |
| Electrical connection                  | Captive screw clamp terminals flexible, clamping capacity: 1 x 50 mm²<br>Captive screw clamp terminals solid, clamping capacity: 1 x 70 mm² |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tightening torque        | 2.5 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Switching capacity in mA | 150000 mA DC at 140 V 3 contact(s) for resistive load (T = 1 ms)<br>150000 mA DC at 24 V 1 contact(s) for inductive load (T = 50 ms)<br>150000 mA DC at 24 V 1 contact(s) for resistive load (T = 1 ms)<br>150000 mA DC at 48 V 1 contact(s) for resistive load (T = 1 ms)<br>150000 mA DC at 48 V 2 contact(s) for inductive load (T = 50 ms)<br>150000 mA DC at 48 V 2 contact(s) for resistive load (T = 1 ms)<br>150000 mA DC at 70 V 3 contact(s) for inductive load (T = 50 ms)<br>150000 mA DC at 70 V 3 contact(s) for resistive load (T = 1 ms)<br>150000 mA DC at 95 V 2 contact(s) for resistive load (T = 1 ms)<br>50000 mA DC at 30 V 1 contact(s) for inductive load (T = 50 ms)<br>50000 mA DC at 60 V 2 contact(s) for inductive load (T = 50 ms)<br>50000 mA DC at 90 V 3 contact(s) for inductive load (T = 50 ms) |
| Mechanical durability    | 300000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| CAD overall width        | 88 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| CAD overall height       | 88 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| CAD overall depth        | 205 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product weight           | 0.88 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Environment

|                                       |                                                                                                                     |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60947-3                                                                                                      |
| Product certifications                | CULus 240 V 15 hp 1 phase<br>CULus 240 V 25 hp 3 phases<br>CULus 480 V 40 hp 3 phases<br>CULus 120 V 7.5 hp 1 phase |
| Protective treatment                  | TC                                                                                                                  |
| Ambient air temperature for operation | -25...55 °C                                                                                                         |
| Ambient air temperature for storage   | -40...70 °C                                                                                                         |
| Overvoltage category                  | Class II conforming to IEC 60536<br>Class II conforming to NF C 20-030                                              |

## Offer Sustainability

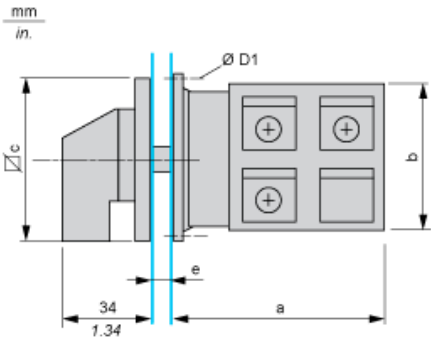
|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| REACH free of SVHC         | Yes                                                                                                                         |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                           |
| Toxic heavy metal free     | Yes                                                                                                                         |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>                                                                                      |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## Contractual warranty

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

Dimensions

Front Mounting

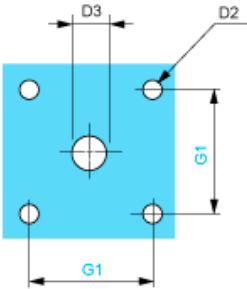


e support panel thickness 0.5 to 5.5 mm / 0.02 to 0.22 in.

| a   |      | b  |      | c  |      | D1  |      |
|-----|------|----|------|----|------|-----|------|
| mm  | in.  | mm | in.  | mm | in.  | mm  | in.  |
| 165 | 6.50 | 88 | 3.46 | 88 | 3.46 | 5.4 | 0.21 |

Panel Cut-Out

Front Mounting



| D2 |      | D3 |      | G1 |      |
|----|------|----|------|----|------|
| mm | in.  | mm | in.  | mm | in.  |
| 6  | 0.24 | 13 | 0.51 | 68 | 2.68 |

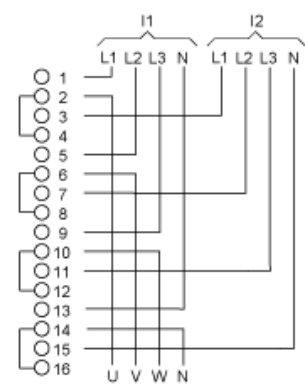
---

Link Positions (Factory Mounted)

---

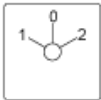
Diagram for 1 to 4-pole Switches

Select the number of poles according to the product characteristics



I1      Input 1  
I2      Input 2

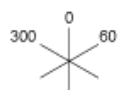
Marking



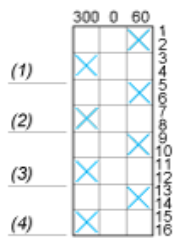
---

Angular Position of Switch

---



Switching Program



- (1) 1-pole
- (2) 2-pole
- (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  $90^\circ$ , spring return is over  $30^\circ$  after the last position (for a maximum of 3 simultaneous contacts).

Example:

