



## 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                            | Front 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, 1 - 0 - 2 black     |
| Cam switch function                         | Reversing switch                   |
| Return                                      | Without                            |
| Off position                                | With Off position                  |
| Poles description                           | 3P                                 |
| Switching positions                         | Right: 0° - 60°<br>Left: 0° - 300° |
| IP degree of protection                     | IP40 IEC 529<br>IP40 NF C 20-010   |

## Complementary

|                                        |                                                                                                                            |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Switching angle                        | 60 °                                                                                                                       |
| [Ui] rated insulation voltage          | 690 V 3)EN 60947-1<br>690 V 3)IEC 60947-1                                                                                  |
| Short-circuit current                  | 5000 A                                                                                                                     |
| Short-circuit protection               | 63 A cartridge fuse gG                                                                                                     |
| [Uimp] rated impulse withstand voltage | 6 kV EN 947-1<br>6 kV IEC 947-1                                                                                            |
| Contact operation                      | Slow-break                                                                                                                 |
| Positive opening                       | With                                                                                                                       |
| Electrical connection                  | Captive screw clamp terminals flexible 2 x 6 mm <sup>2</sup><br>Captive screw clamp terminals solid 2 x 10 mm <sup>2</sup> |
| Tightening torque                      | 17.70 lbf.in (2 N.m)                                                                                                       |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switching capacity in mA | 15000 mA DC 120 V 2 inductive 50 ms)<br>15000 mA DC 180 V 3 inductive 50 ms)<br>15000 mA DC 60 V 1 inductive 50 ms)<br>20000 mA DC 140 V 3 inductive 50 ms)<br>20000 mA DC 48 V 1 inductive 50 ms)<br>20000 mA DC 95 V 2 inductive 50 ms)<br>30000 mA DC 30 V 1 inductive 50 ms)<br>30000 mA DC 60 V 2 inductive 50 ms)<br>30000 mA DC 90 V 3 inductive 50 ms)<br>3500 mA DC 110 V 1 inductive 50 ms)<br>3500 mA DC 220 V 2 inductive 50 ms)<br>3500 mA DC 330 V 3 inductive 50 ms)<br>37000 mA DC 120 V 2 resistive 1 ms)<br>37000 mA DC 180 V 3 resistive 1 ms)<br>37000 mA DC 60 V 1 resistive 1 ms)<br>40000 mA DC 140 V 3 resistive 1 ms)<br>40000 mA DC 24 V 1 inductive 50 ms)<br>40000 mA DC 48 V 1 resistive 1 ms)<br>40000 mA DC 48 V 2 inductive 50 ms)<br>40000 mA DC 70 V 3 inductive 50 ms)<br>40000 mA DC 95 V 2 resistive 1 ms)<br>50000 mA DC 24 V 1 resistive 1 ms)<br>50000 mA DC 48 V 2 resistive 1 ms)<br>50000 mA DC 70 V 3 resistive 1 ms) |
| Mechanical durability    | 300000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| CAD overall width        | 2.52 in (64 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CAD overall height       | 2.52 in (64 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CAD overall depth        | 4.72 in (120 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Net Weight               | 1.07 lb(US) (0.485 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Environment

|                                       |                                                                                                                   |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60947-3                                                                                                    |
| Product certifications                | CULus 120 V 3 hp 1 phase<br>CULus 480 V 25 hp 3 phase<br>CULus 240 V 7.5 hp 1 phase<br>CULus 240 V 7.5 hp 3 phase |
| Protective treatment                  | TC                                                                                                                |
| Ambient Air Temperature for Operation | -13...131 °F (-25...55 °C)                                                                                        |
| Ambient Air Temperature for Storage   | -40...158 °F (-40...70 °C)                                                                                        |
| Electrical shock protection class     | Class II IEC 60536<br>Class II NF C 20-030                                                                        |

## Ordering and shipping details

|                       |                           |
|-----------------------|---------------------------|
| Category              | 21446-9003 K CAM SWITCHES |
| Discount Schedule     | CS1                       |
| GTIN                  | 3389110085006             |
| Nbr. of units in pkg. | 1                         |
| Package weight(Lbs)   | 12.98 oz (368.0 g)        |
| Returnability         | No                        |
| Country of origin     | AT                        |

## Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Package 1 Height             | 5.39 in (13.7 cm)        |
| Package 1 width              | 2.83 in (7.2 cm)         |
| Package 1 Length             | 2.83 in (7.2 cm)         |
| Unit Type of Package 2       | S03                      |
| Number of Units in Package 2 | 30                       |
| Package 2 Weight             | 25.55 lb(US) (11.591 kg) |
| Package 2 Height             | 11.81 in (30 cm)         |
| Package 2 width              | 11.81 in (30 cm)         |
| Package 2 Length             | 15.75 in (40 cm)         |

## Offer Sustainability

|                               |                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| California proposition 65     | WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation              | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                                                                                                      |
| REACH free of SVHC            | Yes                                                                                                                                                                                                                                                                                                                                                                    |
| EU RoHS Directive             | Pro-active compliance (Product out of EU RoHS legal scope) <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.                                                                                                                                                                                                                                           |
| <h2>Contractual warranty</h2> |                                                                                                                                                                                                                                                                                                                                                                        |
| Warranty                      | 18 months                                                                                                                                                                                                                                                                                                                                                              |

Dimensions

Front Mounting

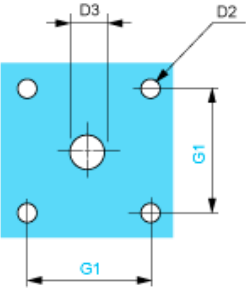


e support panel thickness 0.5 to 5.5 mm / 0.02 to 0.22 in.

| a    |      | b  |      | c  |      | D1  |      |
|------|------|----|------|----|------|-----|------|
| mm   | in.  | mm | in.  | mm | in.  | mm  | in.  |
| 80.8 | 3.18 | 60 | 2.36 | 64 | 2.52 | 4.1 | 0.16 |

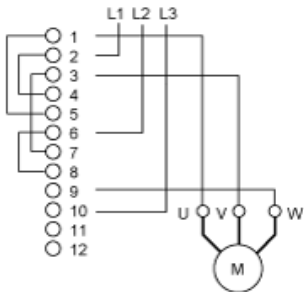
Panel Cut-Out

Front Mounting

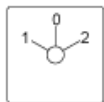


| D2  |      | D3 |      | G1 |      |
|-----|------|----|------|----|------|
| mm  | in.  | mm | in.  | mm | in.  |
| 4.5 | 0.18 | 10 | 0.39 | 48 | 1.89 |

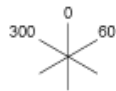
Link Positions (Factory Mounted)



Marking



Angular Position of Switch



Switching Program



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:

