



## 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, 0 - 1 - 2 black   |
| Cam switch function                         | 2-speed motor pole change switch |
| Return                                      | Without                          |
| Motor type                                  | Tapped Dahlander winding         |
| Off position                                | With Off position                |
| Poles description                           | 3P                               |
| Switching positions                         | Right: 300° - 0° - 60°           |
| 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        | 5.43 in (138 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Net Weight               | 1.34 lb(US) (0.61 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                  | 03389110084528              |
| Nbr. of units in pkg. | 1                           |
| Package weight(Lbs)   | 1.34 lb(US) (0.61 kg)       |
| Returnability         | No                          |
| Country of origin     | AT                          |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 2.83 in (7.2 cm)        |
| Package 1 width              | 2.83 in (7.2 cm)        |
| Package 1 Length             | 6.10 in (15.5 cm)       |
| Unit Type of Package 2       | S03                     |
| Number of Units in Package 2 | 20                      |
| Package 2 Weight             | 21.62 lb(US) (9.806 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 and Di-isodecyl phthalate (DIDP) which is known to the State of California to cause Carcinogen and Reproductive harm. For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</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.                                                                                                                                                                      |

## Contractual warranty

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

Dimensions

Front Mounting

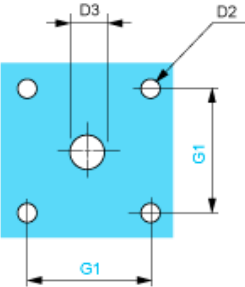


e support panel thickness 0.5 to 5.5 mm / 0.02 to 0.22 in in.

| a    |      | b  |      | c  |      | D1  |      |
|------|------|----|------|----|------|-----|------|
| mm   | in.  | mm | in.  | mm | in.  | mm  | in.  |
| 98.3 | 3.87 | 60 | 2.36 | 64 | 2.52 | 4.1 | 0.16 |

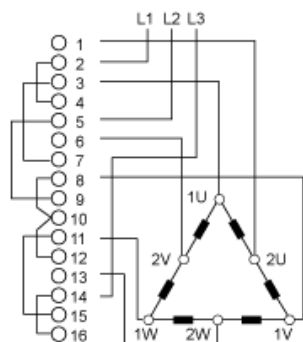
Panel Cut-Out

Front Mounting

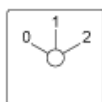


| D2  |      | D3 |      | G1 |      |
|-----|------|----|------|----|------|
| mm  | in.  | mm | in.  | mm | in.  |
| 4.5 | 0.18 | 10 | 0.39 | 48 | 1.89 |

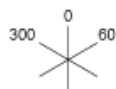
### Link Positions (Factory Mounted)



## 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:

