

## K63F003UP

cam changeover switch - 3-pole - 60° - 63 A - screw mounting



### Main

|                                             |                                                              |
|---------------------------------------------|--------------------------------------------------------------|
| Range of product                            | Harmony K                                                    |
| Product or component type                   | Complete cam switch                                          |
| Component name                              | K63                                                          |
| [Ith] conventional free air thermal current | 63 A                                                         |
| Mounting location                           | Front                                                        |
| 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, 1 - 0 - 2 black marking                |
| Cam switch function                         | Changeover switch                                            |
| Return                                      | Without                                                      |
| Off position                                | With Off position                                            |
| Poles description                           | 3P                                                           |
| Switching positions                         | Left: 0° - 300°<br>Right: 0° - 60°                           |
| 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 degree of pollution 3 conforming to EN 60947-1<br>690 V degree of pollution 3 conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Short-circuit current                  | 10000 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Short-circuit protection               | 80 A by 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, 2 x 10 mm <sup>2</sup><br>Captive screw clamp terminals solid, 2 x 16 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Tightening torque                      | 2.5 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Switching capacity in mA               | 20000 mA DC at 140 V 3 contact(s) for inductive load (T = 50 ms)<br>20000 mA DC at 48 V 1 contact(s) for inductive load (T = 50 ms)<br>20000 mA DC at 95 V 2 contact(s) for inductive load (T = 50 ms)<br>30000 mA DC at 120 V 2 contact(s) for resistive load (T = 1 ms)<br>30000 mA DC at 180 V 3 contact(s) for resistive load (T = 1 ms)<br>30000 mA DC at 60 V 1 contact(s) for resistive load (T = 1 ms)<br>55000 mA DC at 30 V 1 contact(s) for inductive load (T = 50 ms)<br>55000 mA DC at 60 V 2 contact(s) for inductive load (T = 50 ms)<br>55000 mA DC at 90 V 3 contact(s) for inductive load (T = 50 ms)<br>63000 mA DC at 140 V 3 contact(s) for resistive load (T = 1 ms)<br>63000 mA DC at 24 V 1 contact(s) for inductive load (T = 50 ms)<br>63000 mA DC at 24 V 1 contact(s) for resistive load (T = 1 ms)<br>63000 mA DC at 48 V 1 contact(s) for resistive load (T = 1 ms)<br>63000 mA DC at 48 V 2 contact(s) for inductive load (T = 50 ms)<br>63000 mA DC at 48 V 2 contact(s) for resistive load (T = 1 ms)<br>63000 mA DC at 70 V 3 contact(s) for inductive load (T = 50 ms)<br>63000 mA DC at 70 V 3 contact(s) for resistive load (T = 1 ms)<br>63000 mA DC at 95 V 2 contact(s) for resistive load (T = 1 ms) |
| Mechanical durability                  | 300000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| CAD overall width                      | 64 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CAD overall height                     | 64 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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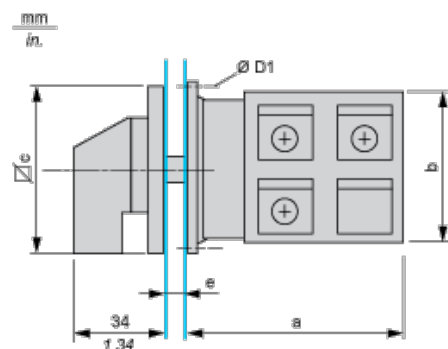
|                   |         |
|-------------------|---------|
| CAD overall depth | 132 mm  |
| Product weight    | 0.59 kg |

## Environment

|                                       |                                                                                                                    |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| standards                             | EN/IEC 60947-3                                                                                                     |
| product certifications                | CULus 120 V 3 hp 1 phase<br>CULus 240 V 10 hp 3 phases<br>CULus 480 V 25 hp 3 phases<br>CULus 240 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                                             |

## Dimensions

### Front Mounting

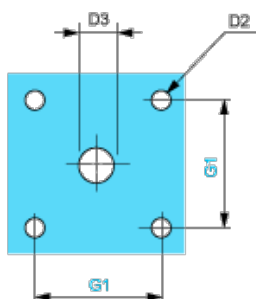


e support panel thickness 0.5 to 5.5 mm / 0.02 to 0.22 in.

| a    |      | b  |      | c  |      | D1  |      |
|------|------|----|------|----|------|-----|------|
| mm   | in.  | mm | in.  | mm | in.  | mm  | in.  |
| 92.8 | 3.65 | 66 | 2.60 | 64 | 2.52 | 5.4 | 0.21 |

## Panel Cut-Out

### Front Mounting

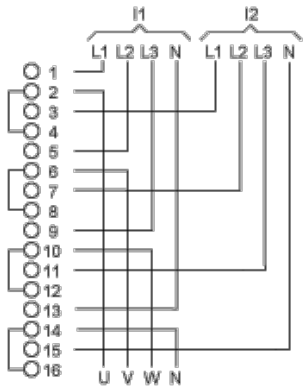


| D2  |      | D3 |      | G1 |      |
|-----|------|----|------|----|------|
| mm  | in.  | mm | in.  | mm | in.  |
| 4.5 | 0.18 | 10 | 0.39 | 48 | 1.89 |

## Link Positions (Factory Mounted)

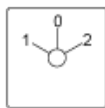
### Diagram for 1 to 4-pole Switches

Select the number of poles according to the product characteristics

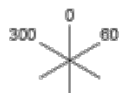


- I1 Input 1
- I2 Input 2

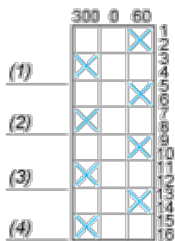
Marking



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°, spring return is over 30° after the last position (for a maximum of 3 simultaneous contacts).

Example:

