



## 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, 0 - Y - delta black marking            |
| Cam switch function                         | Star-delta 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 (pollution degree 3) conforming to EN 60947-1<br>690 V (pollution degree 3) conforming to IEC 60947-1                                 |
| Short-circuit current                  | 10000 A                                                                                                                                     |
| Short-circuit protection               | 80 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: 2 x 10 mm²<br>Captive screw clamp terminals solid, clamping capacity: 2 x 16 mm² |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CAD overall depth        | 154 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Product weight           | 0.68 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Environment

|                                       |                                                                                                                    |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60947-3                                                                                                     |
| Product certifications                | CULus 120 V 3 hp 1 phase<br>CULus 480 V 25 hp 3 phases<br>CULus 240 V 7.5 hp 1 phase<br>CULus 240 V 10 hp 3 phases |
| 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

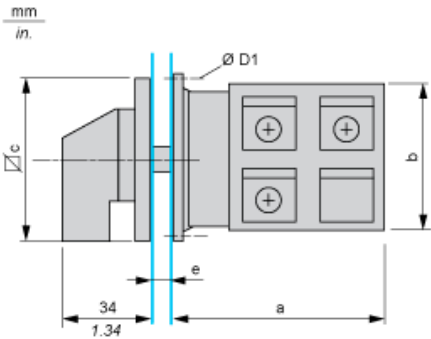
|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 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

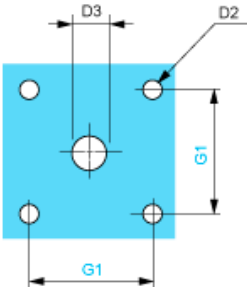


e support panel thickness 0.5 to 5.5 mm / 0.02 to 0.22 in.

| a     |      | b  |      | c  |      | D1  |      |
|-------|------|----|------|----|------|-----|------|
| mm    | in.  | mm | in.  | mm | in.  | mm  | in.  |
| 114.3 | 4.50 | 66 | 2.60 | 64 | 2.52 | 5.4 | 0.21 |

Panel Cut-Out

Front Mounting

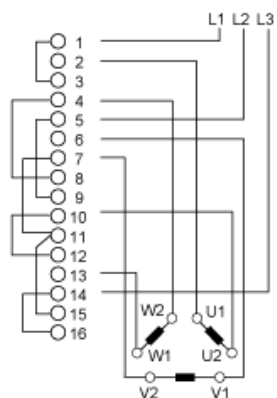


| D2  |      | D3 |      | G1 |      |
|-----|------|----|------|----|------|
| mm  | in.  | mm | in.  | mm | in.  |
| 4.5 | 0.18 | 10 | 0.39 | 48 | 1.89 |

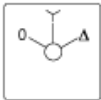
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Link Positions (Factory Mounted)

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Marking



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Angular Position of Switch

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| 300 | 0 | 60 |    |
|-----|---|----|----|
|     | X | X  | 1  |
|     | X | X  | 2  |
|     |   | X  | 3  |
|     |   | X  | 4  |
|     | X | X  | 5  |
|     | X | X  | 6  |
|     | X |    | 7  |
|     | X |    | 8  |
|     |   | X  | 9  |
|     | X |    | 10 |
|     | X |    | 11 |
|     | X | X  | 12 |
|     | X | X  | 13 |
|     |   | X  | 14 |
|     |   | X  | 15 |

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### Convention Used for Switching Program Representation

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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:

