

## Changeover switch - RS20-US-S0212-0303-014H-001 - 3069712

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Changeover switch, with 0 position, Connection method: Screw connection, Number of positions: 3, Function: 1 - 0 - 2, Switching zones: 3, Switching program number: S0212, Rated continuous current: 20 A, Voltage: 690 V

### Why buy this product

- ✓ The compact rotary switch is designed for use in energy technology applications with the available switching programs
- ✓ The use of high-quality materials results in a long mechanical and electrical service life
- ✓ Comprehensive approvals ensure international use
- ✓ High level of safety thanks to non-conductive plastic parts
- ✓ The terminal points are designed in such a way that shock protection according to BGV A2 is ensured
- ✓ The rotary switch is free from cadmium and compliant with the RoHS directive



### Key commercial data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 046356 771580 |
| Weight per Piece (excluding packing) | 9.99 g  |
| Custom tariff number                 | 85365080  |
| Country of origin                    | Ireland   |

### Technical data

#### General

|                          |              |
|--------------------------|--------------|
| Number of connections    | 12           |
| Color                    | silver/black |
| Rotary switch function   | 1 - 0 - 2    |
| Switching program number | S0212        |
| Switching angle          | 60 °         |
| Rated continuous current | 20 A         |
| Maximum load current     | 20 A         |
| Rated surge voltage      | 6 kV         |
| Rated insulation voltage | 690 V        |

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## Technical data

### General

|  |  |
|--|--|
| Additional text  | Valid for networks with grounded neutral point, surge voltage category III, pollution degree 3 |
| Rated operating current according to AC-15 (switching of solenoid drives, contactors, valves, pulling electromagnets)                        | 5 A (220 - 240 V)  |
|  | 4 A (380 - 440 V)  |
| Rated operating current according to AC-21A (switching of ohmic loads including small overloads)   | 20 A   |
| Rated operating current according to AC-22A (switching of mixed ohmic and inductive loads, including small overloads)                        | 20 A (220 - 500 V)   |
|  | 20 A (660 - 690 V)   |
| Switching power according to AC-3 (squirrel-cage motors: direct starting, switching off motors during operation, star-delta startup (CH16B)) | 3 kW (220 - 240 V; 3-phase, 3-pos.)  |
|  | 5.5 kW (380 - 440 V; 3-phase, 3-pos.)  |
|  | 5.5 kW (500 V; 3-phase, 3-pos.)  |
|  | 5.5 kW (660 - 690 V; 3-phase, 3-pos.)  |
|  | 0.6 kW (110 - 120 V; 1-phase, 2-pos.)  |
|  | 2.2 kW (220 - 240 V; 1-phase, 2-pos.)  |
|  | 3 kW (380 - 440 V; 1-phase, 2-pos.)  |
| Switching power according to AC-4 (squirrel-cage motors: starting, reversing, plugging, inching)   | 0.55 kW (220 - 240 V; 3-phase, 3-pos.)   |
|  | 1.5 kW (380 - 440 V; 3-phase, 3-pos.)  |
|  | 1.5 kW (500 V; 3-phase, 3-pos.)  |
|  | 1.5 kW (660 - 690 V; 3-phase, 3-pos.)  |
|  | 0.3 kW (110 - 120 V; 1-phase, 2-pos.)  |
|  | 0.75 kW (220 - 240 V; 1-phase, 2-pos.)   |
|  | 1.5 kW (380 - 440 V; 1-phase, 2-pos.)  |
| Switching power according to AC-23A (frequent switching of motors or other highly inductive loads)   | 3.7 kW (220 - 240 V; 3-phase, 3-pos.)  |
|  | 7.5 kW (380 - 440 V; 3-phase, 3-pos.)  |
|  | 7.5 kW (500 V; 3-phase, 3-pos.)  |
|  | 7.5 kW (660 - 690 V; 3-phase, 3-pos.)  |
|  | 0.75 kW (110 - 120 V; 1-phase, 2-pos.)   |
|  | 2.5 kW (220 - 240 V; 1-phase, 2-pos.)  |
|  | 3.7 kW (380 - 440 V; 1-phase, 2-pos.)  |
| Breaking capacity  | 150 A (220 - 240 V)  |
|  | 150 A (380 - 440 V)  |
|  | 80 A (660 - 690 V)   |
| IP immunity to short-circuiting with maximum backup fuse   | 25 A   |
| Additional text  | gL/gG characteristics  |
| Rated short-time current resistance  | 140 A  |
| Additional text  | 1 s current  |

### Dimensions

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## Technical data

### Dimensions

|                    |          |
|--------------------|----------|
| Width              | 48 mm    |
| Length             | 82.5 mm  |
| Height             | 48 mm    |
| Hole diameter      | 7 mm     |
| Height             | 29.00 mm |
| Installation depth | 52.50 mm |

### Ambient conditions

|                                 |  |
|---------------------------------|--|
| Ambient temperature (operation) | -35 °C ... 55 °C (Open, at 100% load, with peaks up to 60°C)         |
|                                 | -35 °C ... 35 °C (Encapsulated, at 100% load, with peaks up to 60°C) |

### Connection data

|   |                      |
|---|----------------------|
| Conductor cross section solid min.  | 0.5 mm <sup>2</sup>  |
| Conductor cross section solid max.  | 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.  | 20                   |
| Conductor cross section AWG/kcmil max.  | 14                   |
| Conductor cross section stranded min.   | 0.75 mm <sup>2</sup> |
| Conductor cross section stranded max.   | 2.5 mm <sup>2</sup>  |
| Min. AWG conductor cross section, stranded  | 18                   |
| Max. AWG conductor cross section, stranded  | 14                   |
| Conductor cross section / stranded with ferrule without plastic sleeve min.                         | 2.5 mm <sup>2</sup>  |
| Conductor cross section / stranded with ferrule without plastic sleeve max.                         | 2.5 mm <sup>2</sup>  |
| Conductor cross section / stranded with ferrule with plastic sleeve min.                            | 1.5 mm <sup>2</sup>  |
| Conductor cross section / stranded, with ferrule with plastic sleeve max.                           | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid min.  | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.  | 2.5 mm <sup>2</sup>  |
| Two conductors with the same cross section, AWG solid min.  | 20                   |
| Two conductors with the same cross section, AWG solid max.  | 14                   |
| 2 conductors with same cross section, stranded min.   | 0.75 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded max.   | 2.5 mm <sup>2</sup>  |
| Two conductors with the same cross section, AWG stranded, min.                                      | 18                   |
| Two conductors with the same cross section, AWG stranded, max.                                      | 14                   |
| 2 conductors with the same cross section/stranded, with ferrule and without plastic sleeve, minimum | 2.5 mm <sup>2</sup>  |
| 2 conductors with the same cross section/stranded, with ferrule and without plastic sleeve, maximum | 2.5 mm <sup>2</sup>  |
| 2 conductors with the same cross section/stranded, with ferrule and plastic sleeve, minimum         | 1.5 mm <sup>2</sup>  |
| 2 conductors with the same cross section/stranded, with ferrule and plastic sleeve, maximum         | 1.5 mm <sup>2</sup>  |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141111 |
| eCl@ss 4.1 | 27141111 |
| eCl@ss 5.0 | 27141133 |
| eCl@ss 5.1 | 27141133 |
| eCl@ss 6.0 | 27141133 |
| eCl@ss 7.0 | 27141133 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002498 |
| ETIM 5.0 | EC002498 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |

## Approvals

### Approvals

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#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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#### Ex Approvals

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#### Approvals submitted

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### Approval details

|                                |       |
|--------------------------------|-------|
| UL Listed                      |       |
| mm <sup>2</sup> /AWG/kcmil     | 20-12 |
| Nominal current I <sub>N</sub> | 20 A  |
| Nominal voltage U <sub>N</sub> | 300 V |

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## Approvals

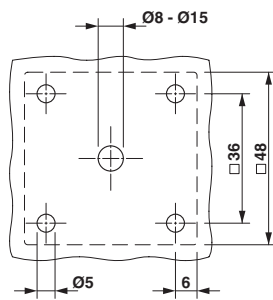
|                                |       |
|--------------------------------|-------|
| cUL Listed                     |       |
| mm <sup>2</sup> /AWG/kcmil     | 20-12 |
| Nominal current I <sub>N</sub> | 20 A  |
| Nominal voltage U <sub>N</sub> | 300 V |

|     |
|-----|
| EAC |
|-----|

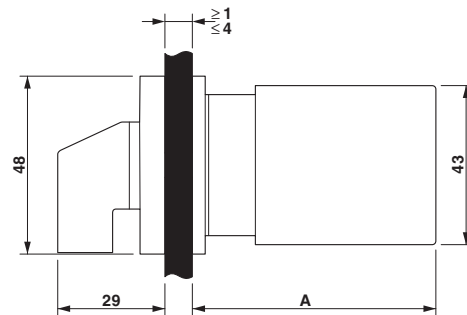
|              |
|--------------|
| cULus Listed |
|--------------|

## Drawings

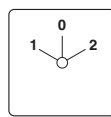
Drilling diagram



Dimensioned drawing



Circuit diagram



S0212

|   |   |   |   |   |    |    |
|---|---|---|---|---|----|----|
|   | 1 | 3 | 5 | 7 | 9  | 11 |
|   | 2 | 4 | 6 | 8 | 10 | 12 |
| 1 |   | X |   | X |    | X  |
| 0 |   |   |   |   |    |    |
| 2 | X |   | X |   | X  |    |