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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Changeover switch - RS20-US-S0210-0103-014H-001 - 3069710

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Changeover switch, with 0 position, Connection method: Screw connection, Number of positions: 1, Function: 1 - 0 - 2, Switching zones: 1, Switching program number: S0210, 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 STK |
| GTIN |  4 046356 771566 |
| GTIN | 4046356771566 |

Technical data

General

| | |
|--------------------------|---|
| Number of connections | 4 |
| Color | silver/black |
| Rotary switch function | 1 - 0 - 2 |
| Switching program number | S0210 |
| Switching angle | 60 ° |
| Rated continuous current | 20 A |
| Maximum load current | 20 A |
| Rated surge voltage | 6 kV |
| Rated insulation voltage | 690 V (Valid for networks with grounded neutral point, overvoltage category III, degree of pollution 3) |

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Technical data

General

| | |
|--|--|
| 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) |
| Maximum power dissipation for nominal condition | 0.9 W |
| Ambient temperature (operation) | -35 °C ... 55 °C (Open, at 100% load, with peaks up to 60°C) |
| IP immunity to short-circuiting with maximum backup fuse | 25 A (gL/gG characteristics) |
| Rated short-time current resistance | 140 A (1 s current) |

Dimensions

| | |
|--------|---------|
| Width | 48 mm |
| Length | 62.5 mm |

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Technical data

Dimensions

| | |
|--------------------|---------|
| Height | 48 mm |
| Hole diameter | 7 mm |
| Height | 29 mm |
| Installation depth | 33.5 mm |

Ambient conditions

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

Connection data

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

Standards and Regulations

| | |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|---|

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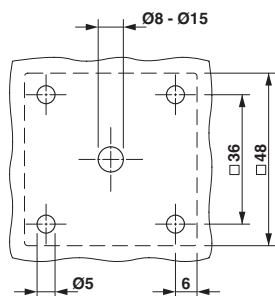
Technical data

Environmental Product Compliance

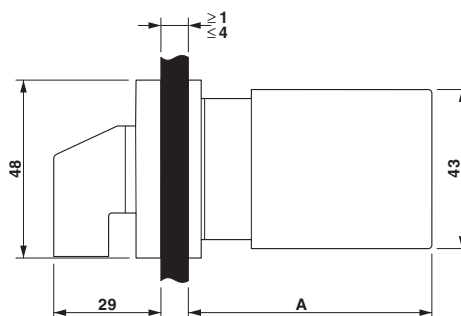
| | |
|--|--|
| | No hazardous substances above threshold values |
|--|--|

Drawings

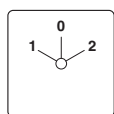
Drilling diagram



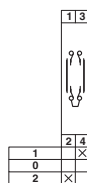
Dimensional drawing



Circuit diagram



S0210



Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals


Approval details

| | | | |
|----------------------------|--|---|---------------|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 357353 |
| mm ² /AWG/kcmil | | 20-12 | |

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Approvals

| | |
|--------------------|-------|
| | |
| Nominal current IN | 20 A |
| Nominal voltage UN | 300 V |

| | | | |
|----------------------------|---|---|---------------|
| cUL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 357353 |
| | | | |
| mm ² /AWG/kcmil | | 20-12 | |
| Nominal current IN | | 20 A | |
| Nominal voltage UN | | 300 V | |

| | | |
|-----|---|---------------|
| EAC |  | EAC-Zulassung |
|-----|---|---------------|

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

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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>