



CIRCUIT-BREAKER SIZE S3 A-RELEASE 45...63 A, N-RELEASE 819A, MOTOR PROTECTION UP TO 100 KA, CLASS 20, SCREW CONNECTION, INCREASED BREAKING CAPACITY

Figure similar

| | |
|-----------------------|----------------------|
| product brand name | SIRIUS |
| Product designation | circuit breaker |
| Design of the product | for motor protection |

General technical data:

| | |
|---|---------|
| Product expansion | |
| • Auxiliary switch | Yes |
| Active power loss total typical | 20 W |
| Surge voltage resistance Rated value | 6 000 V |
| Protection class IP | |
| • on the front | IP20 |
| Mechanical service life (switching cycles) | |
| • of the main contacts typical | 50 000 |

Ambient conditions:

| | |
|--|----------------|
| Installation altitude at height above sea level maximum | 2 000 m |
| Ambient temperature | |
| • during operation | -20 ... +60 °C |
| • during storage | -50 ... +80 °C |
| • during transport | -50 ... +80 °C |

Main circuit:

| | |
|--|-------------|
| Adjustable response value current of the current-dependent overload release | 45 ... 63 A |
| Operating voltage | |
| • Rated value | 690 V |

| | |
|---|--------|
| <ul style="list-style-type: none"> • at AC-3 Rated value maximum | 690 V |
| Operating current | |
| <ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> — at 400 V Rated value | 63 A |
| Operating power | |
| <ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> — at 400 V Rated value | 30 kW |
| Operating frequency | |
| <ul style="list-style-type: none"> • at AC-3 maximum | 15 1/h |

Auxiliary circuit:

| | |
|--|---|
| Number of CO contacts | |
| <ul style="list-style-type: none"> • for auxiliary contacts | 0 |

Protective and monitoring functions:

| | |
|--|----------|
| Trip class | CLASS 20 |
| Maximum short-circuit current breaking capacity (Icu) | |
| <ul style="list-style-type: none"> • at AC at 240 V Rated value | 100 kA |
| <ul style="list-style-type: none"> • with AC at 400 V Rated value | 100 kA |
| <ul style="list-style-type: none"> • at AC at 500 V Rated value | 15 kA |
| <ul style="list-style-type: none"> • at AC at 690 V Rated value | 7.5 kA |

Short-circuit:

| | |
|--|----------------|
| Design of the overcurrent release and short-circuit release | thermomagnetic |
|--|----------------|

Installation/ mounting/ dimensions:

| | |
|---|--|
| mounting position | any |
| Mounting type | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| Height | 165 mm |
| Width | 70 mm |
| Depth | 174 mm |
| Required spacing | |
| <ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — Backwards | 0 mm |
| <ul style="list-style-type: none"> — at the side | 0 mm |

Connections/ Terminals:

| | |
|--|---|
| Product function | |
| <ul style="list-style-type: none"> • removable terminal for auxiliary and control circuit | No |
| Type of electrical connection | |
| <ul style="list-style-type: none"> • for main current circuit | screw-type terminals with box terminals |
| <ul style="list-style-type: none"> • for auxiliary and control current circuit | screw-type terminals |

| | |
|--|--|
| Arrangement of electrical connectors for main current circuit | front side |
| Type of connectable conductor cross-section | |
| <ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — solid — stranded — finely stranded with core end processing • for AWG conductors for main contacts | 2x (2.5 ... 16 mm ²) 2x (10 ... 50 mm ²), 1x (10 ... 70 mm ²) 2x (2.5 ... 35 mm ²), 2.5 ... 50 mm ² 2x (10 ... 1), 1x (10 ... 2) |

Mechanical data:

| | |
|-----------------------------|----|
| Size of the circuit-breaker | S3 |
|-----------------------------|----|

Certificates/ approvals:

| General Product Approval | Declaration of Conformity | Test Certificates |
|--------------------------|---------------------------|-------------------|
|--------------------------|---------------------------|-------------------|



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| Shipping Approval | other |
|-------------------|-------|
|-------------------|-------|



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Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

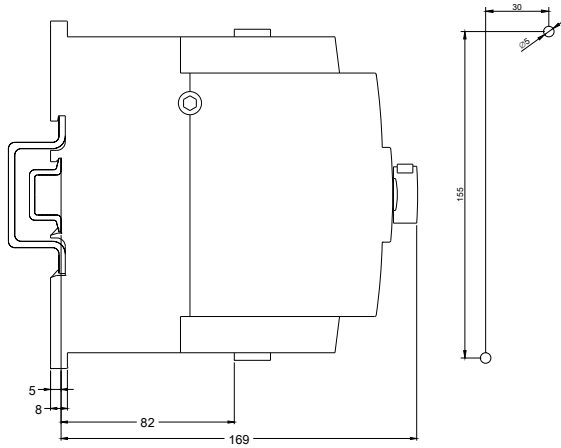
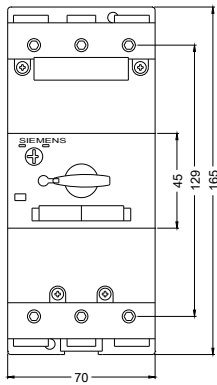
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RV10424JB10>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RV10424JB10>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RV10424JB10&lang=en



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