

CIRCUIT-BREAKER SIZE S3, FOR MOTOR PROTECTION, CLASS 10, A-REL. 80...100A,N-REL. 1300A SCREW TERMINAL, STANDARD SWITCHING 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 |
| Power loss [W] total typical | 38 W |
| Surge voltage resistance rated value | 6 000 V |
| Protection class IP | |
| • on the front | IP20 |
| Shock resistance | 25g / 11 ms |
| 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 | 80 ... 100 A |
| Operating voltage | |
| • rated value | 690 V |
| • at AC-3 rated value maximum | 690 V |
| Operating current | |
| • at AC-3 | |
| — at 400 V rated value | 100 A |
| Operating power | |
| • at AC-3 | |
| — at 400 V rated value | 45 kW |
| Operating frequency | |
| • at AC-3 maximum | 15 1/h |

Auxiliary circuit:

| | |
|------------------------------|---|
| Number of CO contacts | |
| • for auxiliary contacts | 0 |

Protective and monitoring functions:

| | |
|---|----------|
| Trip class | CLASS 10 |
| Maximum short-circuit current breaking capacity (I_{cu}) | |
| • at AC at 240 V rated value | 100 kA |
| • at AC at 400 V rated value | 50 kA |
| • at AC at 500 V rated value | 8 kA |
| • at AC at 690 V rated value | 5 kA |

Short-circuit protection

| | |
|--|----------------|
| 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 | |
| • with side-by-side mounting | |
| — Backwards | 0 mm |
| — at the side | 0 mm |

Connections/ Terminals:

| | |
|---|--|
| Product function | No |
| <ul style="list-style-type: none"> removable terminal for auxiliary and control circuit | |
| Type of electrical connection | screw-type terminals with box terminals screw-type terminals |
| <ul style="list-style-type: none"> for main current circuit for auxiliary and control current circuit | |
| Arrangement of electrical connectors for main current circuit | front side |
| Type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> for main contacts <ul style="list-style-type: none"> — solid — stranded — finely stranded with core end processing at 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) |

Certificates/approvals

| General Product Approval | For use in hazardous locations |
|--------------------------|--------------------------------|
|--------------------------|--------------------------------|



| Declaration of Conformity | Test Certificates | Shipping Approval |
|---------------------------|-------------------|-------------------|
|---------------------------|-------------------|-------------------|



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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)

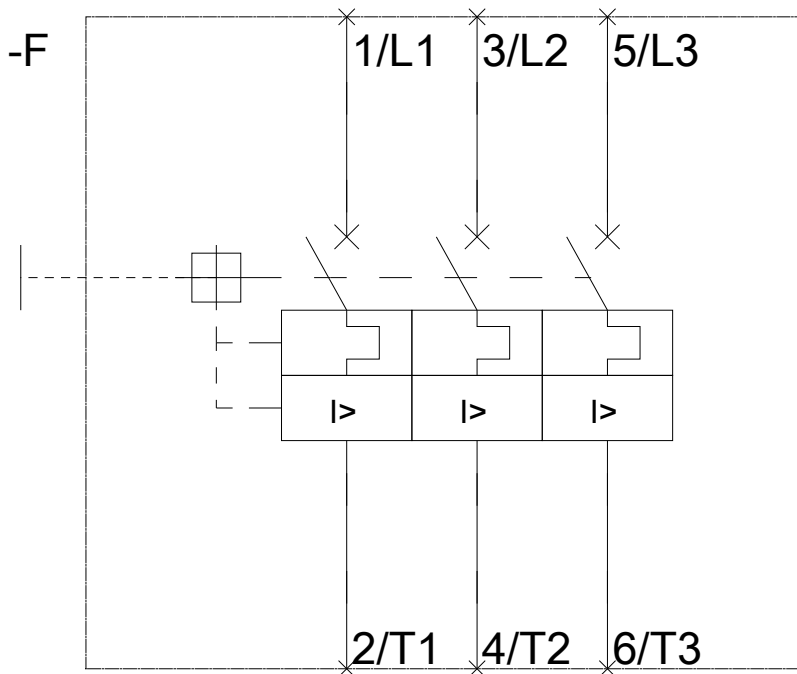
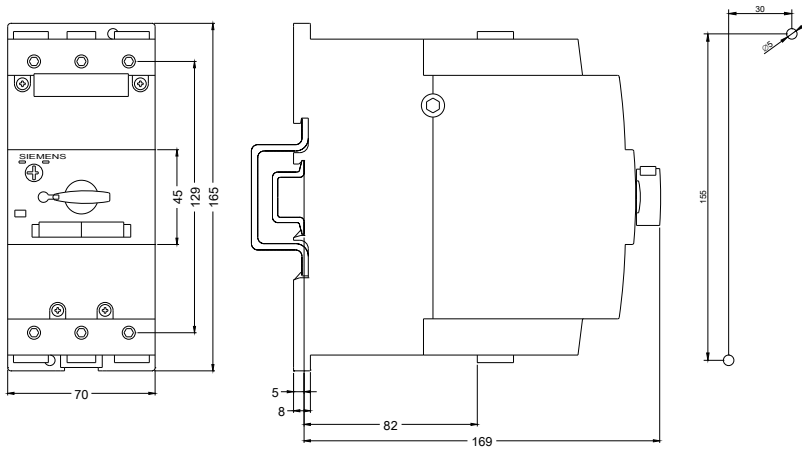
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV10414MA10>

Cax online generator

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV10414MA10>



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