



Molded case circuit breaker 3RV1 for motor protection Standard switching capacity Rated current $I_n = 400$ A electronic release Short-circuit protection adjustable 6-13 x I_n Overload protection adjustable 0.4-1 x I_n , Class 10A-33 $I_{cu} = 120$ kA at 400 V 3-pole, Screw terminal including phase barriers

| | |
|--|--------------------------------|
| product brand name | SIRIUS |
| product designation | molded-case circuit breaker |
| design of the product | for motor protection |
| product type designation | 3RV1 |
| General technical data | |
| product extension auxiliary switch | Yes |
| surge voltage resistance rated value | 8 000 V |
| protection class IP on the front | IP20 |
| shock resistance | 12g / 11 ms |
| mechanical service life (operating cycles) of the main contacts typical | 20 000 |
| continuous current rated value | 400 A |
| Substance Prohibition (Date) | 01/08/2008 |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| • during operation | -25 ... +60 °C |
| • during storage | -40 ... +70 °C |
| • during transport | -40 ... +70 °C |
| Main circuit | |
| number of poles for main current circuit | 3 |
| adjustable current response value current of the current-dependent overload release | 160 ... 400 A |
| operating voltage | |
| • rated value | 690 V |
| • rated value | 20 ... 690 V |
| • at AC-3 rated value maximum | 690 V |
| operational current at AC-3 at 400 V rated value | 400 A |
| operating power at AC-3 | |
| • at 400 V rated value | 200 kW |
| operating frequency at AC-3 maximum | 15 1/h |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts | 0 |
| number of NO contacts for auxiliary contacts | 0 |
| number of CO contacts for auxiliary contacts | 0 |
| Protective and monitoring functions | |
| product function | |
| • ground fault detection | No |
| • phase failure detection | Yes |
| trip class | CLASS 10, 20 and 30 adjustable |
| design of the overload release | electronic |

| | |
|--|------------------------------------|
| maximum short-circuit current breaking capacity (Icu) | |
| <ul style="list-style-type: none"> • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value | 100 kA 120 kA 85 kA 70 kA |
| response value current of instantaneous short-circuit trip unit | 5 200 A |

Short-circuit protection

| | |
|--|------------|
| design of the short-circuit trip | electronic |
| design of the overcurrent release and short-circuit release | electronic |

Installation/ mounting/ dimensions

| | |
|--|--------------|
| mounting position | any |
| fastening method | screw fixing |
| height | 205 mm |
| width | 140 mm |
| depth | 103.5 mm |
| required spacing with side-by-side mounting | |
| <ul style="list-style-type: none"> • backwards • at the side | 0 mm 0 mm |

Connections/ Terminals

| | |
|---|--|
| product component removable terminal for auxiliary and control circuit | No |
| type of electrical connection | |
| <ul style="list-style-type: none"> • for main current circuit • for auxiliary and control circuit | screw-type terminals screw-type terminals |
| arrangement of electrical connectors for main current circuit | front side |

Safety related data

| | |
|--|-------------|
| touch protection against electrical shock | finger-safe |
|--|-------------|

Certificates/ approvals

| General Product Approval | Declaration of Conformity | Test Certificates | Marine / Shipping |
|--------------------------|---------------------------|-------------------|-------------------|
|--------------------------|---------------------------|-------------------|-------------------|

[Confirmation](#)



EG-Konf.



[Special Test Certificate](#)



ABS

| Marine / Shipping | other |
|-------------------|-------|
|-------------------|-------|



LRS



RINA



DNV-GL

[Confirmation](#)

[Miscellaneous](#)

| other | Railway |
|-------|---------|
|-------|---------|



VDE

[Special Test Certificate](#)

Further information

Siemens has decided to exit the Russian market (see here).
<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1073-7GL10>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1073-7GL10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1073-7GL10>

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

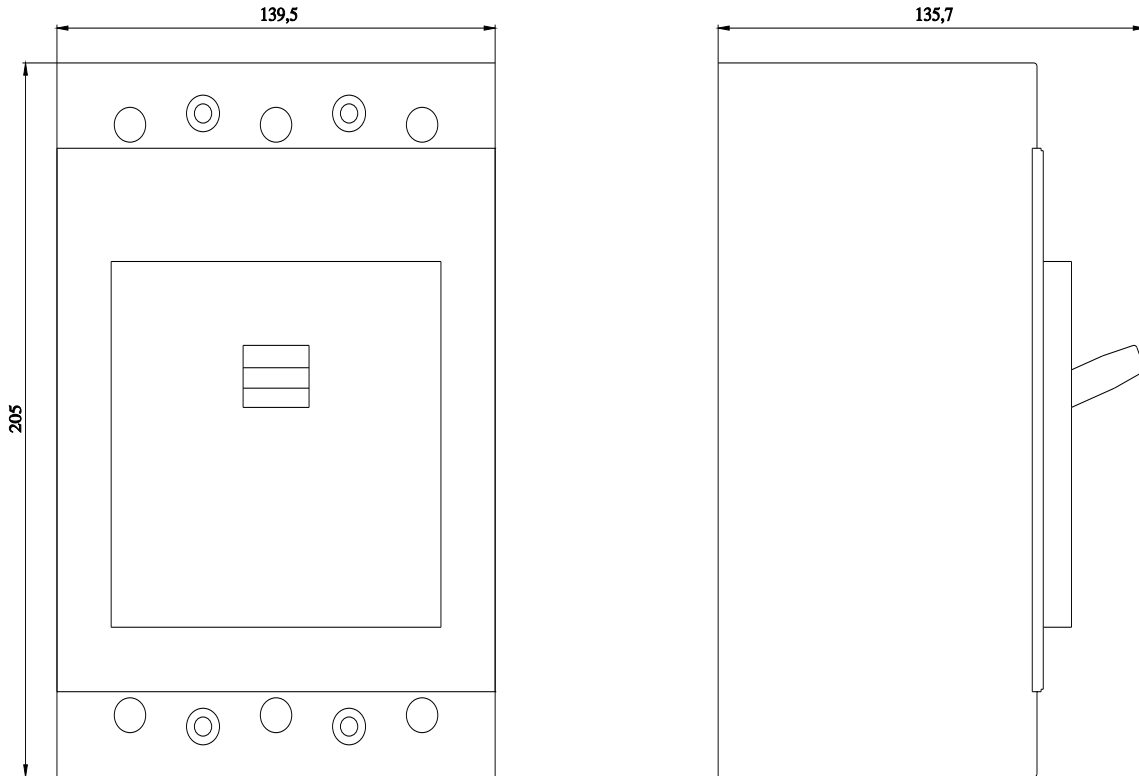
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1073-7GL10&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1073-7GL10/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1073-7GL10&objecttype=14&gridview=view1>



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