



Molded case circuit breaker 3RV1 for motor protection Standard switching capacity  
Rated current  $I_n = 160$  A electronic release Short-circuit protection adjustable 6-13  
 $\times I_n$  Overload protection adjustable 0.4-1  $\times I_n$ , Class 10A-31  $I_{cu} = 120$  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
<b>General technical data</b>	
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	250 A
Substance Prohibitance (Date)	01/08/2008
<b>Ambient conditions</b>	
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
<b>Main circuit</b>	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	64 ... 160 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	250 A
operating power at AC-3	
• at 400 V rated value	90 kW
operating frequency at AC-3 maximum	15 1/h
<b>Auxiliary circuit</b>	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
<b>Protective and monitoring functions</b>	
product function	
• ground fault detection	No
• phase failure detection	Yes
trip class	CLASS 10, 20 and 30 adjustable
design of the overload release	electronic

<b>maximum short-circuit current breaking capacity (Icu)</b>	
• at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	120 kA
• at AC at 500 V rated value	85 kA
• at AC at 690 V rated value	70 kA
<b>response value current of instantaneous short-circuit trip unit</b>	2 080 A

#### Short-circuit protection

<b>design of the short-circuit trip</b>	electronic
<b>design of the overcurrent release and short-circuit release</b>	electronic

#### Installation/ mounting/ dimensions

<b>mounting position</b>	any
<b>fastening method</b>	screw fixing
<b>height</b>	205 mm
<b>width</b>	105 mm
<b>depth</b>	103.5 mm
<b>required spacing with side-by-side mounting</b>	
• backwards	0 mm
• at the side	0 mm

#### Connections/ Terminals

<b>product component removable terminal for auxiliary and control circuit</b>	No
<b>type of electrical connection</b>	
• for main current circuit	screw-type terminals
• for auxiliary and control circuit	screw-type terminals
<b>arrangement of electrical connectors for main current circuit</b>	front side

#### Safety related data

<b>touch protection against electrical shock</b>	finger-safe
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#### Certificates/ approvals

<b>General Product Approval</b>	<b>Declaration of Conformity</b>	<b>Test Certificates</b>	<b>Marine / Shipping</b>
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[Confirmation](#)



[Special Test Certificate](#)



<b>Marine / Shipping</b>	<b>other</b>
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[Miscellaneous](#)

[Confirmation](#)



#### Railway

[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=3RV1063-7CL10>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1063-7CL10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1063-7CL10>

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

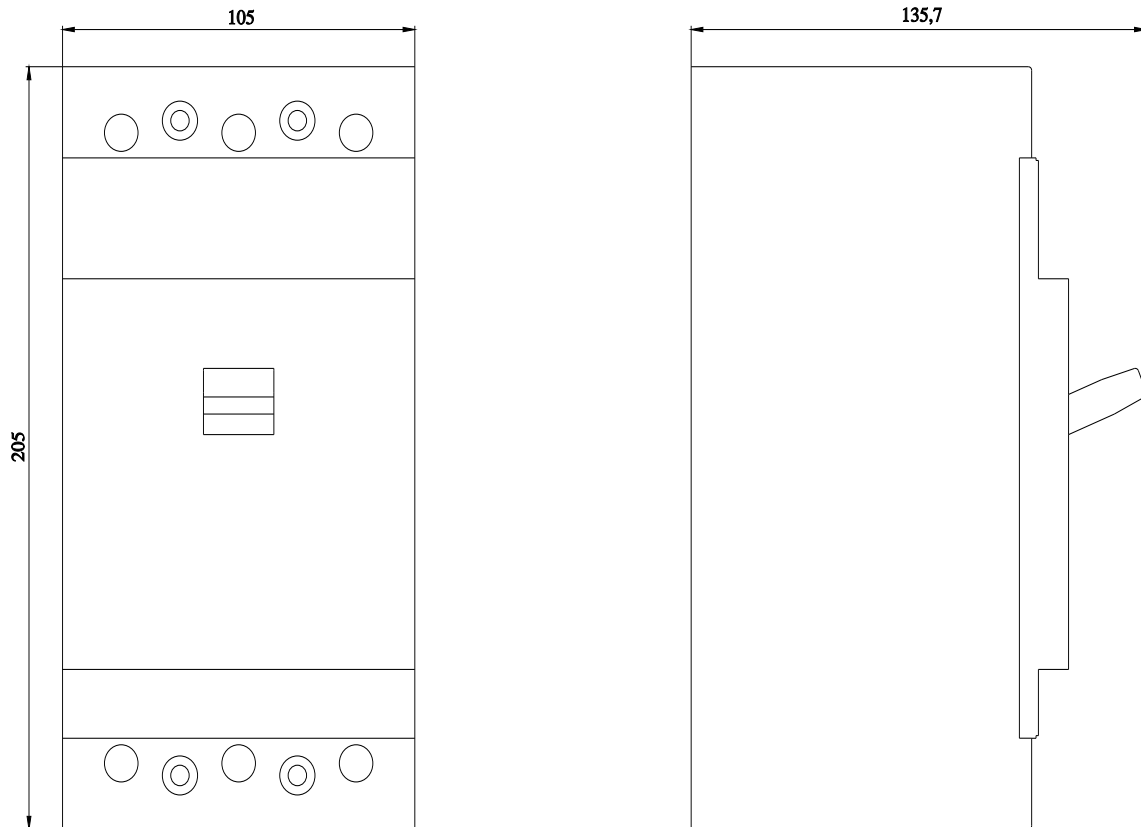
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV1063-7CL10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1063-7CL10&lang=en)

Characteristic: Tripping characteristics,  $I^2t$ , Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1063-7CL10/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1063-7CL10&objecttype=14&gridview=view1>



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