



Molded case circuit breaker 3RV1 for starter combination increased switching capacity Rated current $I_n = 160$ A electronic release Short-circuit protection adjustable 1-10 x I_n $I_{cu} = 200$ 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 starter combinations
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	160 A
Substance Prohibitance (Date)	01/08/2008

Ambient conditions

installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-25 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C

Main circuit

number of poles for main current circuit	3
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	160 A
operating power at AC-3	
• at 400 V rated value	90 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	No
maximum short-circuit current breaking capacity (I_{cu})	
• at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	200 kA
• at AC at 500 V rated value	150 kA

<ul style="list-style-type: none"> at AC at 690 V rated value 	80 kA
response value current of instantaneous short-circuit trip unit	1 600 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	105 mm
depth	103.5 mm
required spacing 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 component 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
<ul style="list-style-type: none"> for auxiliary and control circuit 	screw-type terminals
arrangement of electrical connectors for main current circuit	front side

Safety related data

touch protection against electrical shock	finger-safe
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Certificates/ approvals

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



[Special Test Certificate](#)



Marine / Shipping

other



[Miscellaneous](#)

[Confirmation](#)



Railway

[Special Test Certificate](#)

Further information

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=3RV1364-7CN10>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1364-7CN10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1364-7CN10>

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

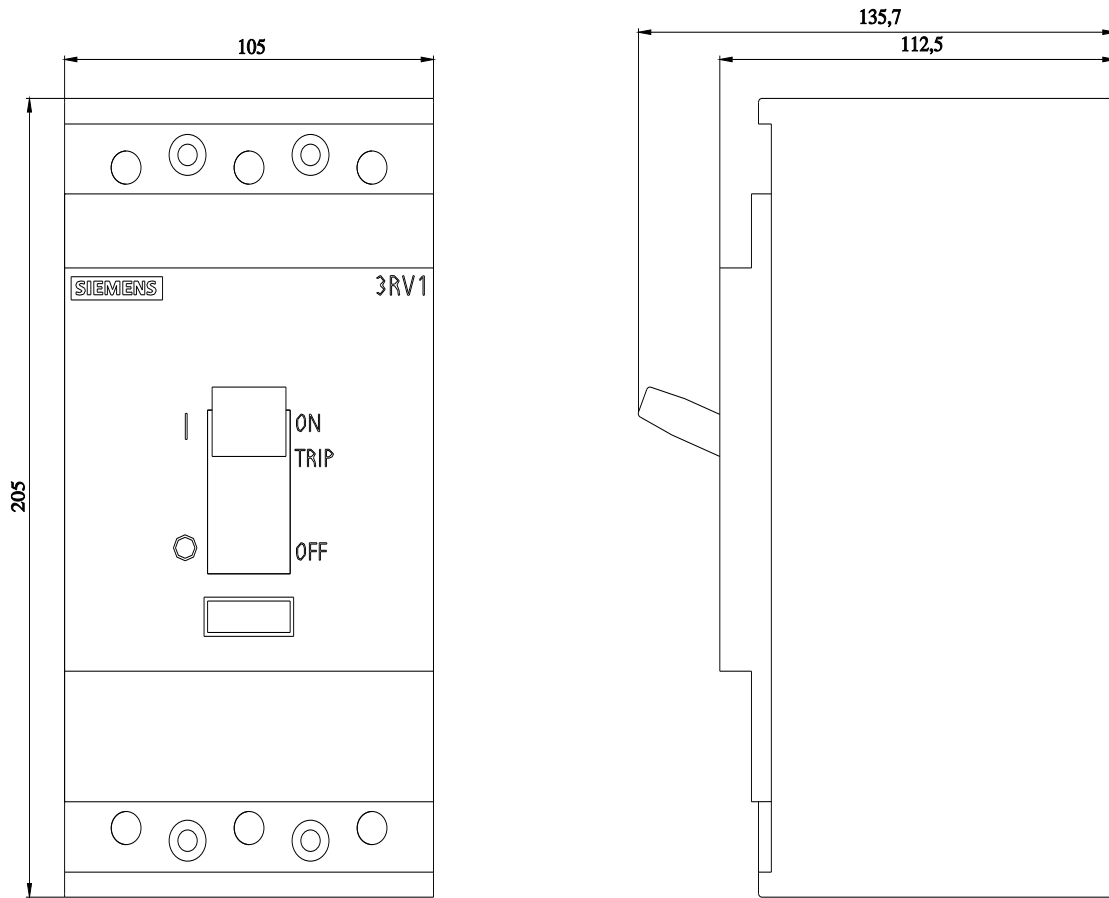
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1364-7CN10&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1364-7CN10/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1364-7CN10&objecttype=14&gridview=view1>



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