SIEMENS

Data sheet



Circuit breaker size S0 for system protection without phase failure protection A-release 13...20 A N-release 260 A screw terminal Standard switching capacity

product type designation design of the product product type designation 3RV2 General technical data size of contactor can be combined company-specific size of contactor can be combined company-specific size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value shock resistance according to IEC 60068-2-27 general contacts spical • of the main contacts typical • of auxiliary contacts typical • of dauxiliary contacts typical • of dauxiliary contacts typical • of dauxiliary contacts spical • of the main contacts typical • of dauxiliary contacts spical • o	product brand name	SIRIUS	
product type designation General technical data size of the circuit-breaker size of tontactor can be combined company-specific product extension auxiliary switch yower loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance according to IEC 60068-2-27 geometric service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of unit main contacts typical • of unit with the service life (operating cycles) (ypical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum • unit of units of the sea of the current • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dopendent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V operating frequency rated value operating frequency rated value operational current • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value operational current • at AC-3 at 400 V rated value	product designation	Circuit breaker	
Size of the circuit-breaker size of the circuit-breaker size of the circuit-breaker size of contactor can be combined company-specific S00, S0 product extension auxiliary switch Yes power loss IWJ for rated value of the current • at AC in hot operating state per pole 3.5 W insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-227 25g / 11 ms Sinus mechanical service life (operating cycles) • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 electrical endurance (operating cycles) 100 000 electrical endurance (operating cycles) 100 000 efference code according to IEC 81484-2 Q Substance Prohibitance (Date) 100 1/2009 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 relative humidity during operation 10 95 % Main circuit number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release operating voltage • rated value examinum 690 V operating frequency rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 90 A CO A C	design of the product	for system protection	
size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch yes power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms Sinus mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of unition altitude at height above sea level maximum ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation * of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • at AC-3 ar ated value maximum • at AC-3 ar ated value maximum • at AC-3 ar ated value	product type designation	3RV2	
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surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of of the main contacts typical of auxiliary contacts typical lectrical endurance (operating cycles) typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature olduring operation olduring storage olduring transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage at AC-3 rated value maximum en at AC-3 rated value operational current operational current operational current operational current at AC-3 rated value operational current of at AC-3 at 400 V rated value operational current of at AC-3 at 400 V rated value operational current of at AC-3 at 400 V rated value operational current of at AC-3 at 400 V rated value operational current of at AC-3 at 400 V rated value operational current of at AC-3 at 400 V rated value	at AC in hot operating state per pole	3.5 W	
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Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V operating frequency rated value operational current rated value 20 690 V operational current rated value 20 A operational current rated value 20 A	electrical endurance (operating cycles) typical	100 000	
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • at AC-3 rated value maximum • at AC-3 at 400 V rated value 20 690 V 20 690 V 20 A	reference code according to IEC 81346-2	Q	
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 during storage during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum at AC-3 rated value maximum operating frequency rated value operating frequency rated value operational current rated value operational current at AC-3 at 400 V rated value 20 A 	ambient temperature		
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adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 20 A operational current • at AC-3 at 400 V rated value 20 A	Main circuit		
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 at AC-3 rated value maximum at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 20 A operational current at AC-3 at 400 V rated value 20 A 	operating voltage		
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operating frequency rated value 50 60 Hz operational current rated value 20 A operational current • at AC-3 at 400 V rated value 20 A	 at AC-3 rated value maximum 	690 V	
operational current rated value 20 A operational current • at AC-3 at 400 V rated value 20 A	at AC-3e rated value maximum	690 V	
operational current • at AC-3 at 400 V rated value 20 A	operating frequency rated value	50 60 Hz	
• at AC-3 at 400 V rated value 20 A	operational current rated value	20 A	
	operational current		
• at AC-3e at 400 V rated value 20 A	• at AC-3 at 400 V rated value	20 A	
	• at AC-3e at 400 V rated value	20 A	

operating power	
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 kW
• at AC-3e	
— at 230 V rated value	5.5 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 kW
operating frequency	
• at AC-3 maximum	15 1/h
at AC-3e 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
·	0
Protective and monitoring functions	
product function	Ne
ground fault detection	No
phase failure detection	No
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
 at AC at 240 V rated value 	100 kA
 at AC at 400 V rated value 	55 kA
 at AC at 500 V rated value 	10 kA
at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 kA
at 400 V rated value	25 kA
 at 500 V rated value 	5 kA
at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	260 A
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 400 V	gG 63 A
• at 500 V	gG 50 A
• at 690 V	gG 50 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
for grounded parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— upwards — at the side	9 mm
	3 mm
• for live parts at 400 V	20
— downwards	
	30 mm
— upwards	30 mm
— at the side	
·	30 mm

— upwards	30 mm
— at the side	9 mm
 for live parts at 500 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
 for main contacts 	
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
tightening torque	
• for main contacts with screw-type terminals	2 2.5 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	

5 000
50 %
50 %
50 FIT
10 a
IP20
finger-safe, for vertical contact from the front
Handle

M4

Certificates/ approvals

General Product Approval

• for main contacts

Declaration of Conformity

Confirmation



<u>KC</u>







Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate













Confirmation



Confirmation

Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/qlobal/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=3RV2021-4BA10-0DA0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2021-4BA10-0DA0}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4BA10-0DA0

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

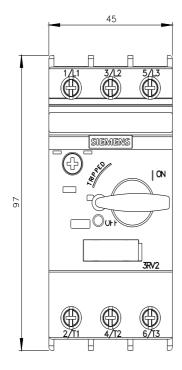
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4BA10-0DA0&lang=en

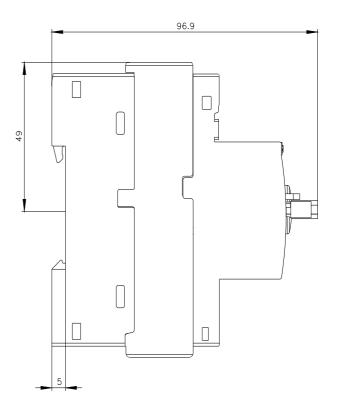
Characteristic: Tripping characteristics, I2t, Let-through current

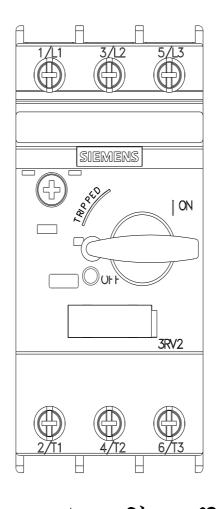
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4BA10-0DA0/char

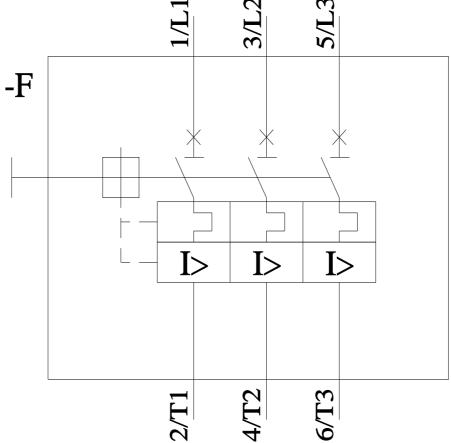
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4BA10-0DA0&objecttype=14&gridview=view1









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Mouser Electronics

Authorized Distributor

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Siemens:

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