SIEMENS

Data sheet

3RV2041-4RA10-0DA0



Circuit breaker size S3 For plant protection Without phase failure protection A-release 65...84 A Short-circuit release 1170 A Screw terminal Standard switching capacity

Figure similar

product brand name	SIRIUS	
product designation	Circuit breaker	
design of the product	for system protection	
product type designation	3RV2	
General technical data		
size of the circuit-breaker	S3	
size of contactor can be combined company-specific	S3	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current		
 at AC in hot operating state 	39 W	
at AC in hot operating state per pole	11.3 W	
insulation voltage with degree of pollution 3 at AC rated value	1 000 V	
surge voltage resistance rated value	8 kV	
shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus	
mechanical service life (operating cycles)		
 of the main contacts typical 	25 000	
of auxiliary contacts typical	25 000	
electrical endurance (operating cycles) typical	25 000	
reference code according to IEC 81346-2	Q	
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	
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	65 84 A	
operating voltage		
• rated value	20 690 V	
 at AC-3 rated value maximum 	690 V	
at AC-3e rated value maximum	690 V	
operating frequency rated value	50 60 Hz	
operational current rated value	84 A	
operational current		
 at AC-3 at 400 V rated value 	84 A	
• at AC-3e at 400 V rated value	84 A	

operating power	
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 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
Protective and monitoring functions	
product function	
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 	65 kA
 at AC at 500 V rated value 	8 kA
• at AC at 690 V rated value	5 kA
operating short-circuit current breaking capacity (lcs) at AC	
at 240 V rated value	100 kA
• at 400 V rated value	30 kA
• at 500 V rated value	4 kA
• at 690 V rated value	3 kA
response value current of instantaneous short-circuit trip unit	1 170 A
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	165 mm
width	70 mm
depth	176 mm
required spacing	170 (1111)
	0 mm
with side-by-side mounting at the sidefor grounded parts at 400 V	C IIIII
for grounded parts at 400 v downwards	70 mm
	70 mm
— upwards	10 mm
— at the side	IV IIIII
• for live parts at 400 V	70 mm
— downwards	70 mm
— upwards	
— at the side	10 mm
• for grounded parts at 500 V	440
— downwards	110 mm
— upwards	110 mm
— at the side	10 mm
• for live parts at 500 V	
— downwards	110 mm

— upwards	110 mm	
— at the side	10 mm	
for grounded parts at 690 V		
— downwards	150 mm	
— upwards	150 mm	
— at the side	30 mm	
• for live parts at 690 V		
— downwards	150 mm	
— upwards	150 mm	
— at the side	30 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	2x (2.5 16 mm²)	
— solid or stranded	2x (2,5 50 mm²), 1x (10 70 mm²)	
 finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)	
 finely stranded without core end processing 	2x (10 35 mm²), 1x (10 50 mm²)	
tightening torque		
for main contacts for ring cable lug	4.5 6 N·m	
outer diameter of the usable ring cable lug maximum	19 mm	
tightening torque		
for main contacts with screw-type terminals	4.5 6 N·m	
design of the thread of the connection screw		
for main contacts	M8	
Safety related data		
B10 value		
with high demand rate according to SN 31920	5 000	
proportion of dangerous failures		
 with low demand rate according to SN 31920 	50 %	
with high demand rate according to SN 31920	50 %	
failure rate [FIT]		
with low demand rate according to SN 31920	50 FIT	
T1 value for proof test interval or service life according to IEC 61508	10 a 	
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
display version for switching status	Handle	
Certificates/ approvals		
General Product Approval	Declaration of Conformity	Test Certificates
Confirmation KC	CE UK	Type Test Certificates/Test Report

Test Certificates

Marine / Shipping

Special Test Certificate











Marine / Shipping other Railway





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=3RV2041-4RA10-0DA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2041-4RA10-0DA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2041-4RA10-0DA0

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

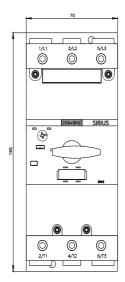
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2041-4RA10-0DA0&lang=en

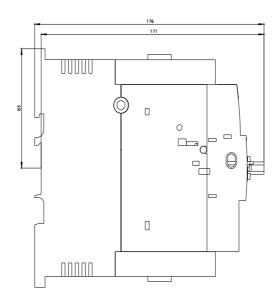
Characteristic: Tripping characteristics, I2t, Let-through current

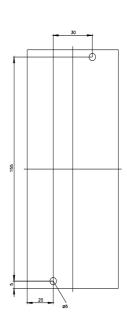
https://support.industry.siemens.com/cs/ww/en/ps/3RV2041-4RA10-0DA0/char

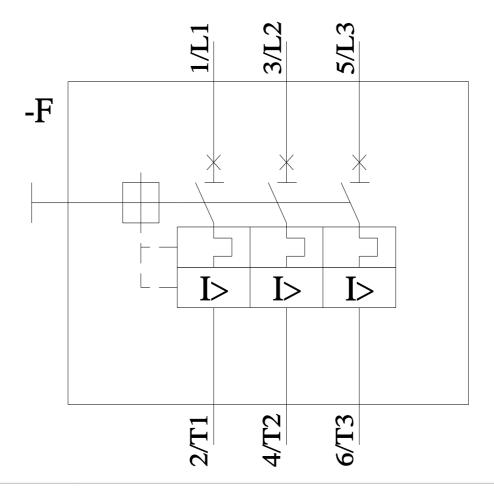
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2041-4RA10-0DA0&objecttype=14&gridview=view1









last modified: 11/21/2022 🖸