SIEMENS

Data sheet

3RV2041-4JA10-0DA0



Circuit breaker size S3 for system protection without phase failure protection A-release 45...63 A N-release 819 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 	34 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		
Substance Prohibitance (Date)	03/01/2017		
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	45 63 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	63 A		
operational current			
• at AC-3 at 400 V rated value	63 A		

-1.00.01.400.1/	00.4		
at AC-3e at 400 V rated value	63 A		
operating power			
• at AC-3			
— at 230 V rated value	18.5 kW		
— at 400 V rated value	30 kW		
— at 500 V rated value	37 kW		
— at 690 V rated value	55 kW		
• at AC-3e			
— at 230 V rated value	18.5 kW		
— at 400 V rated value	30 kW		
— at 500 V rated value	37 kW		
— at 690 V rated value	55 kW		
operating frequency			
• at AC-3 maximum	15 1/h		
at AC-3e maximum	15 1/h		
Auxiliary circuit	TO THE		
	0		
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 	12 kA		
at AC at 690 V rated value	5 kA		
operating short-circuit current breaking capacity (Ics) at AC			
 at 400 V rated value 	30 kA		
 at 500 V rated value 	6 kA		
at 690 V rated value	3 kA		
response value current of instantaneous short-circuit trip unit	819 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		
·	17011111		
required spacing	0 mm		
with side-by-side mounting at the side for grounded parts at 400 V	0 mm		
• for grounded parts at 400 V	70		
— downwards	70 mm		
— upwards	70 mm		
— at the side	10 mm		
 for live parts at 400 V 			
•			
— downwards	70 mm		
•	70 mm 70 mm		
— downwards			
— downwards — upwards	70 mm		
downwardsupwardsat the side	70 mm		
 downwards upwards at the side for grounded parts at 500 V 	70 mm 10 mm		
 downwards upwards at the side for grounded parts at 500 V downwards 	70 mm 10 mm		
 downwards upwards at the side for grounded parts at 500 V downwards upwards 	70 mm 10 mm 110 mm 110 mm		
 downwards upwards at the side for grounded parts at 500 V downwards upwards at the side 	70 mm 10 mm 110 mm 110 mm		

— upwards	110 mm				
— at the side	10 mm				
• for grounded parts at 690 V	10 111111				
— downwards	150 mm				
— upwards		150 mm			
— at the side	30 mm	30 mm			
 for live parts at 690 V 					
— downwards	150 mm				
— upwards		150 mm			
— at the side	30 mm	30 mm			
Connections/ Terminals					
type of electrical connection					
for main current circuit	screw-typ	screw-type terminals			
arrangement of electrical connectors for main current circuit	Top and b	Top and bottom			
type of connectable conductor cross-sections					
• for main contacts					
— solid	2x (2.5	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	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	M8			
Safety related data					
B10 value					
with high demand rate according to SN 31920	5 000	5,000			
proportion of dangerous failures	0 000				
with low demand rate according to SN 31920	50 %	50 %			
with high demand rate according to SN 31920 with high demand rate according to SN 31920					
failure rate [FIT]	30 70	50 %			
	EO EIT	EQ EIT			
with low demand rate according to SN 31920 The low for proof took interval or continue life according to IFC.		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	Handle			
Certificates/ approvals					
General Product Approval	De	eclaration of Conformity	Test Certificates		
Confirmation KC	_	UK cc	Type Test Certificates/Test Report		

EAC





Type Test Certificates/Test Report

Test Certificates

Marine / Shipping

Special Test Certificate











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=3RV2041-4JA10-0DA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2041-4JA10-0DA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2041-4JA10-0DA0

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

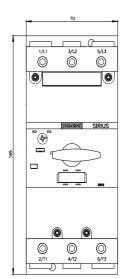
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2041-4JA10-0DA0&lang=en

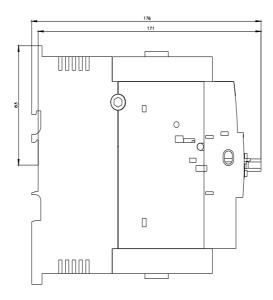
Characteristic: Tripping characteristics, I2t, Let-through current

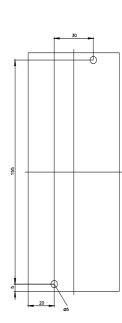
https://support.industry.siemens.com/cs/ww/en/ps/3RV2041-4JA10-0DA0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2041-4JA10-0DA0&objecttype=14&gridview=view1









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