3RV2011-1EA25-0BA0

## **Data sheet**



Special type Circuit breaker size S00 for motor protection, CLASS 10 Arelease 2.8...4 A N release 52 A Spring-type terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC Ambient temperature -50 °C 500 switching cycles

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W
at AC in hot operating state per pole	2.4 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (switching cycles)	
<ul> <li>of the main contacts typical</li> </ul>	500
of auxiliary contacts typical	500
electrical endurance (switching cycles) typical	500
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul><li>during operation</li></ul>	-50 +60 °C
<ul><li>during storage</li></ul>	-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	2.8 4 A
operating voltage	
rated value	20 690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	4 A
operational current	
• at AC-3 at 400 V rated value	4 A
operating power	

• at AC-3	0.011
— at 230 V rated value	0.8 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	3 kW
operating frequency	45.40
at AC-3 maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15	0
• at 24 V	2 A
• at 120 V	0.5 A
• at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	0.071
• at 24 V	1 A
• at 60 V	0.15 A
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity maximum short-circuit current (Icu)	
<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	100 kA
at AC at 690 V rated value	6 kA
breaking capacity operating short-circuit current (Ics) at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
<ul> <li>at 400 V rated value</li> </ul>	100 kA
<ul><li>at 500 V rated value</li></ul>	100 kA
at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	52 A
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
for short-circuit protection of the auxiliary switch required	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 400 V	gG 32 A
• at 500 V	gG 32 A
• at 690 V	gG 25 A
Installation/ mounting/ dimensions	· · ·
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
height	106 mm
width	45 mm
depth	97 mm
required spacing	
• for grounded parts at 400 V	
— downwards	30 mm
— upwards	30 mm

	CE UK	
General Product Approval	Declaration of Conformity	Test Certificates
Certificates/ approvals		
touch protection on the front according to IEC 60529 display version for switching status	finger-safe, for vertical contact from the front  Handle	
60529		
IEC 61508  protection class IP on the front according to IEC	IP20	
T1 value for proof test interval or service life according to	10 y	
Safety related data	0,0 x 0,0 mm	
size of the screwdriver tip	3,0 x 0,5 mm	
— finely stranded without core end processing design of screwdriver shaft	2x (0.5 1.5 mm²)  Diameter 3 mm	
— finely stranded with core end processing	2x (0.5 1.5 mm²)	
solid or stranded     finely stranded with core and processing	2x (0.5 2.5 mm²)	
for auxiliary contacts	20 (0.5	
type of connectable conductor cross-sections		
— finely stranded without core end processing	2x (0.5 2.5 mm²)	
— finely stranded with core end processing	2x (0.5 2.5 mm²)	
— solid or stranded	2x (0,5 4 mm²)	
for main contacts		
type of connectable conductor cross-sections		
arrangement of electrical connectors for main current circuit	Top and bottom	
for auxiliary and control circuit	spring-loaded terminals	
for main current circuit	spring-loaded terminals	
type of electrical connection		
Connections/ Terminals		
— forwards	0 mm	
— at the side	30 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	50 mm	
<ul> <li>for live parts at 690 V</li> </ul>		
— forwards	0 mm	
— at the side	30 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	50 mm	
• for grounded parts at 690 V		
— at the side	9 mm	
— upwards	30 mm	
— downwards	30 mm	
for live parts at 500 V	9 111111	
<ul><li>— upwards</li><li>— at the side</li></ul>	30 mm 9 mm	
— downwards	30 mm	
• for grounded parts at 500 V	00	
— at the side	9 mm	
— upwards	30 mm	
— downwards	30 mm	
<ul> <li>for live parts at 400 V</li> </ul>		

Test Certificates Marine / Shipping

Type Test Certificates/Test Report











Marine / Shipping

other

Railway





Confirmation



Confirmation

Vibration and Shock

## Further information

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=3RV2011-1EA25-0BA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1EA25-0BA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1EA25-0BA0

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-1EA25-0BA0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1EA25-0BA0/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1EA25-0BA0&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1EA25-0BA0&objecttype=14&gridview=view1</a>

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