SIEMENS

Data sheet 3RV2011-1FA25



Circuit breaker size S00 for motor protection, CLASS 10 A-release 3.5...5 A N release 65 A Spring-type terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

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		
 at AC in hot operating state 	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)		
 of the main contacts typical 	100 000	
of auxiliary contacts typical	100 000	
electrical endurance (switching cycles) typical	100 000	
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD	
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001	
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		
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	3.5 5 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	5 A
operational current	
at AC-3 at 400 V rated value	5 A
at AC-3e at 400 V rated value	5 A
operating power	
• at AC-3	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e 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	0
operational current of auxiliary contacts at AC-15	O
• 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	No
product function • ground fault detection	No Yes
product functionground fault detectionphase failure detection	Yes
 product function ground fault detection phase failure detection trip class 	Yes CLASS 10
product function	Yes
product function	Yes CLASS 10 thermal
product function	Yes CLASS 10
product function	Yes CLASS 10 thermal
product function	Yes CLASS 10 thermal 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA
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product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 100 kA 100 kA 100 kA 5 A 5 A
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 kA 4 kA 65 A 5 A 5 A
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 100 kA 100 kA 100 kA 5 A 5 A

 at 200/208 V rated value 	1 hp
 at 220/230 V rated value 	1 hp
 at 460/480 V rated value 	3 hp
— at 575/600 V rated value	3 hp
contact rating of auxiliary contacts according to UL	C300 / R300
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 gL/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	gL/gG 32 A
● at 500 V	gL/gG 32 A
• at 690 V	gL/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
— at the side	9 mm
• for live parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
for grounded parts at 500 V	V
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 500 V	V
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
for grounded parts at 690 V	V IIIII
— downwards	50 mm
— upwards	50 mm
— upwarus — backwards	0 mm
— at the side	30 mm
— at the side — forwards	0 mm
for live parts at 690 V	V IIIII
— downwards	50 mm
	50 mm
— upwards	
— backwards	0 mm 30 mm
— at the side	
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
for auxiliary and control circuit arrangement of electrical connectors for main current	spring-loaded terminals Top and bottom
circuit	
type of connectable conductor cross-sections	
for main contacts	

2x (0.5 2.5 mm²)
2x (0.5 2.5 mm²)
2x (20 12)
2x (0.5 2.5 mm²)
2x (0.5 1.5 mm²)
2x (0.5 1.5 mm²)
2x (20 14)
Diameter 3 mm
3,0 x 0,5 mm
5 000
50 %
50 %
50 FIT
10 y
IP20
finger-safe, for vertical contact from the front
Handle

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



For use in hazardous locations

Declaration of Conformity

Test Certificates









Special Test Certific-

Type Test Certificates/Test Report

Marine / Shipping















Marine / Shipping

other

Railway



Confirmation



Vibration and Shock

Confirmation

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=3RV2011-1FA25

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1FA25

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1FA25

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1FA25&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1FA25/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1FA25&objecttype=14&gridview=view1

last modified: 6/25/2022 🖸