SIEMENS

Data sheet

3RV2011-1JA25



Circuit breaker size S00 for motor protection, CLASS 10 A-release 7...10 A N release 130 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 	9.25 W
at AC in hot operating state per pole	3.1 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	7 10 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	10 A
operational current	
at AC-3 at 400 V rated value	10 A
at AC-3e at 400 V rated value	10 A
operating power	
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 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	
• 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	
• at 24 V	1 A
● at 60 V	0.15 A
Protective and monitoring functions	
product function	
 product function ground fault detection 	No
-	No Yes
ground fault detection	
ground fault detectionphase failure detection	Yes
ground fault detection phase failure detection trip class	Yes CLASS 10
ground fault detection phase failure detection trip class design of the overload release	Yes CLASS 10
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (lcu)	Yes CLASS 10 thermal
• ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value	Yes CLASS 10 thermal 100 kA
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA
• ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA
• ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA
• ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 240 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 240 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA
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ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 240 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 600 V rated value • at 400 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (lcu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (lcs) at AC at 240 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (lcs) at AC at 240 V rated value at 400 V rated value at 690 V rated value at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA
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 ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 690 V rated value at 690 V rated value at 690 V rated value tresponse value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value 	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A 10 A
 ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 400 V rated value at 400 V rated value at 400 V rated value at 690 V rated value at 400 V rated value at 400 V rated value at 690 V rated value at 600 V rated value 	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A 10 A 10 A 10 A
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- at 202205 V mice Value 2 hp - at 202205 V mice Value 3 hp 6 hp - at 460480 V made Value 5 hp 6 not creat value 10 hp contact rating of auxiliary contacts according to UL C300 / R300 Contact rating value 10 hp contact rating of auxiliary contacts according to UL C300 / R300 Contact value Value design of the short-circuit trip magnetic design of the short-circuit trip contact value contact cont	at 200/200 V rated value	0 km
- at 400480 V field value 5 hp - at 57500 V field value 10 hp contact rating of auxiliary contacts according to UL G300 / R300 Sinor-Circuit protection Yes design of the fose link magnetic - for ahort-circuit protection of the auxiliary switch required required - did dot y gLigG 30 A gLigG 30 A gLigG 30 A - et also V gLigG 30 A gLigG 40 A - et also V gLigG 30 A - et also V gLigG 30 A - et also V gLigG 40 A - et also V arrow and snap-on mounting onto 35 mm standard mounting rail - also V arrow and snap-on mounting onto 35 mm standard mounting rail - et also V arrom	- at 200/208 V rated value	2 hp
contact rating of auxiliary contacts according to UL C300 / R300 Short-circuit protection Yes required magnetic design of the short-circuit protection of the auxiliary switch required Fuse gLyG: 10 A, miniature circuit breaker C 6 A (short-circuit current lik < 400 Å)		
Shet-Circuit protection Yes graduct function short circuit trip magnetic design of the short circuit trip magnetic elsign of the short circuit protection of the auxiliary switch required First Status el of short-circuit protection of the auxiliary switch required First Status el at 800 V gL/g3 50 Å gL/g3 60 Å e at 800 V gL/g3 60 Å e at 800 V gL/g3 60 Å mounting position any frastaliator/ mounting orbits any mounting position any required spacing or grounded parts at 400 V - downwards 30 mm - upwards 30 mm - at the side 9 mm • for lay parts at 400 V - - downwards 30 mm - at the side 9 mm • for grounded parts at 400 V - - downwards 30 mm - upwards 30 mm - at the side 9 mm • for lay parts at 500 V - - downwards 30 mm - upwards 30 mm <td></td> <td></td>		
product function short circuit protection Yes design of the short-circuit trip magnetic doing of the short-circuit protection of the auxilary switch required For short-circuit protection of the auxilary switch required short of the main circuit Fuse gL/gC: 10 A, miniature circuit breaker C 6 A (short-circuit current k < 400 A)		C3007R300
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required IK < 400 Å)	-	
protection of the main circuit JUGS 50 A • at 600 V gL/gG 50 A • at 600 V gL/gG 40 A • at 600 V gL/gG 40 A restallator/ mounting/ dimensions ary mounting position ary festenling method accover and snap-on mounting onto 35 mm standard mounting rail accover and snap-on mounting onto 35 mm standard mounting rail accover and snap-on mounting onto 35 mm standard mounting rail is cover and snap-on mounting onto 35 mm standard mounting rail accover and snap-on mounting onto 35 mm standard mounting rail is cover and snap-on mounting onto 35 mm standard mounting rail accover and snap-on mounting onto 35 mm standard mounting rail is cover and snap-on mounting onto 35 mm standard mounting rail accover and snap-on mounting onto 35 mm standard mounting rail is cover and snap-on mounting onto 35 mm standard mounting rail accover and snap-on mounting onto 35 mm standard mounting rail is cover and snap-on mounting onto 35 mm standard mounting rail accover and snap-on mounting onto 35 mm standard mounting rail is dired 9 mm of mounting and snap-on mounting onto 35 mm standard mounting rail is dired 9 mm of mounting and snap-on mounting onto 35 mm standard mounting rail - of onnextas	required	
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tai 680 V gL/gG 40 A Installation/ mounting / dimensions mounting position arry festening method acrow and snap-on mounting onto 35 mm standard mounting rail according to DNE N 60715 height 106 mm vidth 45 mm depth or or owned parts at 400 V - downwards 0 mm - upwards 0 mm - upwards 0 mm - downwards 0 mm - upwards 0 mm - downwards 0 mm - downwards 0 mm - downwards 0 mm - upwards 0 mm - downwards 0 mm - upwards 0 mm - downwards 0 mm - upwards 0 mm - backwards 0 mm - upwards 0 mm - the side 0 mm - upwards		
Installation/ mounting/ dimensions 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 dopth 97 mm required spacing 97 mm • for grounded parts at 400 V - - downwards 30 mm - upwards 30 mm - at the side 9 mm • for low parts at 400 V - - downwards 30 mm - upwards 30 mm - at the side 9 mm • for low parts at 500 V - - downwards 30 mm - upwards 30 mm - upwards 30 mm - upwards 30 mm - at the side 9 mm • for low parts at 500 V - - downwards 30 mm - upwards 30 mm - at the side 9 mm • for low parts at 500 V - - downwards 50 mm - upwards 50 mm		
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According to DIN EN 60715 height 106 mm width 45 mm depth 97 mm required spacing 97 mm - downwards 30 mm - upwards 30 mm - at the side 9 mm - for live parts at 400 V - - downwards 30 mm - at the side 9 mm - for live parts at 400 V - - downwards 30 mm - upwards 30 mm - upwards 30 mm - at the side 9 mm - for grounded parts at 500 V - - upwards 30 mm - at the side 9 mm - for grounded parts at 500 V - - upwards 30 mm - at the side 9 mm - for grounded parts at 600 V - - upwards 50 mm - upwards 50 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - upw		
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required spacing for grounded parts at 400 V 		45 mm
required spacing for grounded parts at 400 V 	depth	97 mm
	•	
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- at the side9 mm• for grounded parts at 690 V downwards50 mm- upwards50 mm- backwards0 mm- backwards0 mm- at the side30 mm- forwards0 mm- forwards0 mm- downwards50 mm- downwards50 mm- downwards50 mm- upwards50 mm- upwards50 mm- backwards0 mm- at the side30 mm- browards0 mm- at the side30 mm- forwards0 mmConnections/ Terminals0 mmtype of electrical connectionspring-loaded terminals• for auxiliary and control circuitspring-loaded terminalstype of connectable conductor cross-sectionsTop and bottom		30 mm
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- 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		
at the side30 mm forwards0 mm• for live parts at 690 V downwards50 mm upwards50 mm upwards0 mm backwards0 mm at the side30 mm forwards0 mm forwards		0 mm
forwards0 mm• for live parts at 690 V50 mm downwards50 mm upwards50 mm backwards0 mm backwards0 mm at the side30 mm forwards0 mm forwards0 mmConnections/Terminals0 mmtype of electrical connectionspring-loaded terminals• for main current circuitspring-loaded terminalsarrangement of electrical connectors for main current circuitTop and bottomtype of connectable conductor cross-sections • for main contactsTop and bottom	— at the side	
 for live parts at 690 V downwards upwards upwards backwards mm backwards omm at the side for wards omm for main current circuit spring-loaded terminals for auxiliary and control circuit spring-loaded terminals for auxiliary and control circuit spring-loaded terminals for and bottom for main current circuit spring-loaded terminals for auxiliary and control circuit spring-loaded terminals for auxiliary and control circuit spring-loaded terminals for main current circuit spring-loaded terminals 		
- downwards50 mm- upwards50 mm- backwards0 mm- at the side30 mm- forwards0 mm- forwards0 mmConnections/ Terminalstype of electrical connection• for main current circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminalsarrangement of electrical connectors for main current circuitTop and bottomtype of connectable conductor cross-sections • for main contactsImage: Contact con	 for live parts at 690 V 	
		50 mm
	— upwards	50 mm
— forwards 0 mm Connections/ Terminals		0 mm
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts	— at the side	30 mm
type of electrical connection spring-loaded terminals • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for main contacts	— forwards	0 mm
type of electrical connection spring-loaded terminals • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for main contacts	Connections/ Terminals	
• for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections ofor main contacts		
• for auxiliary and control circuit spring-loaded terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for main contacts		spring-loaded terminals
arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections for main contacts Top and bottom Top and bottom		
for main contacts	arrangement of electrical connectors for main current circuit	
	type of connectable conductor cross-sections	
— solid or stranded 2x (0,5 4 mm ²)	 for main contacts 	
	— solid or stranded	2x (0,5 4 mm²)

— finely strar	nded with core end proc	cessing	2x (0.5 2.5 mm²)		
- finely stranded without core end processing		2x (0.5 2.5 mm²)			
at AWG cables for main contacts type of connectable conductor cross-sections		2x (20 12)			
type of connectable	conductor cross-sect	tions			
 for auxiliary cor 	ntacts				
— solid or str	anded		2x (0.5 2.5 mm²)		
— finely stranded with core end processing		2x (0.5 1.5 mm ²)			
- finely stranded without core end processing		2x (0.5 1.5 mm ²)			
at AWG cables for auxiliary contacts		2x (20 14)			
design of screwdriver shaft		Diameter 3 mm			
size of the screwdriver tip		3,0 x 0,5 mm			
Safety related data					
B10 value					
with high demand rate according to SN 31920			5 000		
with high demand rate according to SN 31920 proportion of dangerous failures					
	id rate according to SN	31920	50 %		
	nd rate according to SN		50 %		
failure rate [FIT]		101020	00 //		
	d rate according to SN	31920	50 FIT		
	t interval or service life		10 y		
IEC 61508			10 y		
protection class IP o 60529	on the front according	to IEC	IP20		
touch protection on	the front according to	o IEC 60529	finger-safe, for vertical conta	ict from the front	
display version for sw	vitching status		Handle		
Certificates/ approval	s				
General Product Ap	proval				
					כחנ
ESA		ccc	UL		CUL
For use in hazardou	us locations	Declaration of	of Conformity	Test Certificates	CUL
For use in hazardou	us locations	Declaration of EG-Konf.	of Conformity	Test Certificates Type Test Certificates ates/Test Report	Ent Special Test Certific- ate
For use in hazardou	IECE×	CE	of Conformity	Type Test Certific-	
KEX ATEX	IECE×	CE	of Conformity	Type Test Certific-	
Marine / Shipping	IECE×	EG-Konf.	Hoyds Register	Type Test Certific-	
Marine / Shipping	IECEX	EG-Konf.	Hoyds Register Lirs	Type Test Certific-	
Marine / Shipping ABS	ICCR	EG-Konf.	Lovds Railway	Type Test Certific- ates/Test Report	
Marine / Shipping Marine / Shipping Marine / Shipping Marine / Shipping	ICCR	EG-Konf.	Railway Vibration and Shock	Type Test Certific- ates/Test Report	

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-1JA25

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1JA25

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1JA25

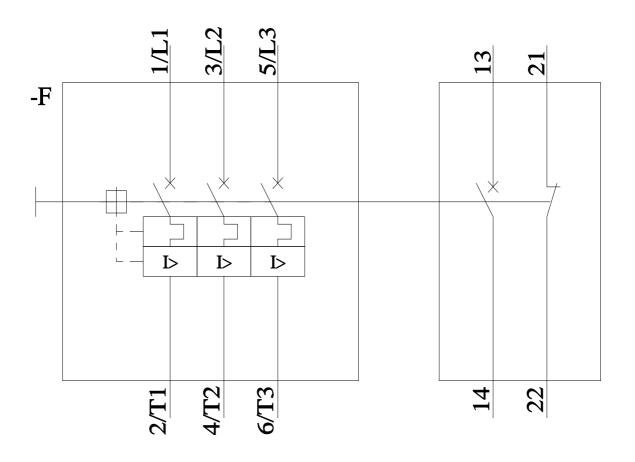
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1JA25&lang=en</u>

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1JA25/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1JA25&objecttype=14&gridview=view1



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