SIEMENS

Data sheet

3RV2011-1EA10-0BA0



Special type Circuit breaker size S00 for motor protection, CLASS 10 A-release 2.8...4 A N release 52 A screw terminal Standard switching capacity Ambient temperature -50 $^\circ$ C 500 switching cycles

product brand name SIRUS product designation Circuit breaker design of the product For motor protection product type designation 3RV2 General technical data S00 size of the circuit-breaker S00 gond the circuit-breaker S00 size of the circuit-breaker S00, S0 product extension auxiliary switch Yes power loss [W] for rated value of the current 4 AC in hot operating state • at AC in hot operating state per pole 2.4 W insulation voltage resistance rated value 680 V shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service IIf (switching cycles) 500 • of the main contacts typical 500 • of the main contacts typical 500 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient temperature -50 +60 °C • during peration -50 +60 °C • during trapport -50 +60 °C • during trapport -50 +60 °C • during trapport -50 +60 °C		
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• 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) 600 V • of the main contacts typical 500 • of auxiliary contacts typical 500 • of auxiliary contacts typical 500 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 1 installation altitude at height above sea level maximum 2 000 m ambient temperature -50 +60 °C • during operation -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current of	product extension auxiliary switch	Yes
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• of the main contacts typical500• of auxiliary contacts typical500electrical endurance (switching cycles) typical500reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 mambient temperature-50 +60 °C• during operation-50 +80 °C• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3adjustable current response value current of the current-dependent overload release3 4 A	shock resistance according to IEC 60068-2-27	25g / 11 ms
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reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -50 +60 °C • during operation -50 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C mumber of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 2.8 4 A	 of auxiliary contacts typical 	500
Substance Prohibitance (Date) 10/01/2009 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature 2 000 m • during operation -50 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 2.8 4 A	electrical endurance (switching cycles) typical	500
Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -50 +60 °C • during operation -50 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 adjustable current response value current of the current-dependent overload release 2.8 4 A	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum 2 000 m ambient temperature -50 +60 °C • during operation -50 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 adjustable current response value current of the current-dependent overload release 2.8 4 A	Substance Prohibitance (Date)	10/01/2009
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• during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 adjustable current response value current of the current-dependent overload release 2.8 4 A	ambient temperature	
• during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 2.8 4 A	 during operation 	-50 +60 °C
relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 2.8 4 A	 during storage 	-50 +80 °C
Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 2.8 4 A	during transport	-50 +80 °C
number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 2.8 4 A	relative humidity during operation	10 95 %
adjustable current response value current of the current-dependent overload release 2.8 4 A	Main circuit	
current-dependent overload release	number of poles for main current circuit	3
operating voltage	•	2.8 4 A
	operating voltage	
• rated value 20 690 V	rated value	20 690 V
at AC-3 rated value maximum 690 V	at AC-3 rated value maximum	690 V
operating frequency rated value 50 60 Hz	operating frequency rated value	50 60 Hz
operational current rated value 4 A	operational current rated value	4 A
operational current	operational current	
at AC-3 at 400 V rated value 4 A	at AC-3 at 400 V rated value	4 A
operating power	operating power	

• at AC-3	
— 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	
• at AC-3 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 	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity maximum short-circuit current (Icu)	
at AC at 240 V rated value	100 kA
at AC at 400 V rated value	100 kA
at AC at 500 V rated value	100 kA
at AC at 690 V rated value	6 kA
breaking capacity operating short-circuit current (lcs)	
at AC	
 at 240 V rated value 	100 kA
 at 400 V rated value 	100 kA
 at 500 V rated value 	100 kA
at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	52 A
Short-circuit protection	
Short-circuit protection product function short circuit protection	Yes
	Yes magnetic
product function short circuit protection	
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit	
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit	magnetic
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V	magnetic gG 32 A
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V	magnetic gG 32 A gG 32 A
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions	magnetic gG 32 A gG 32 A
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V	magnetic gG 32 A gG 32 A gG 25 A
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position	magnetic gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method	magnetic gG 32 A gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method	magnetic gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width	magnetic gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth	magnetic gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	magnetic gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V	magnetic gG 32 A gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards	magnetic gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — upwards	magnetic gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm 30 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side	magnetic gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm 30 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — at the side — at the side • for live parts at 400 V	magnetic gG 32 A gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm 30 mm 9 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — at the side • for live parts at 400 V — at the side	magnetic gG 32 A gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm 30 mm 9 mm 30 mm
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product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards	magnetic gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm 9 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — at the side • for live parts at 400 V — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — upwards	magnetic gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side	magnetic gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm 30 mm 9 mm 30 mm 30 mm 30 mm 30 mm 30 mm
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — at the side • for live parts at 400 V — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — upwards	magnetic gG 32 A gG 32 A gG 25 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm

		1			
— upwards	vards		30 mm		
— at the side			9 mm		
 for grounded part 					
— downwards	5		50 mm		
— upwards			50 mm		
— backwards			0 mm		
— at the side			30 mm		
— forwards			0 mm		
 for live parts at 6 	690 V				
- downwards	;		50 mm		
— upwards			50 mm		
– backwards			0 mm		
— at the side			0 mm 30 mm		
— forwards			30 mm 0 mm		
Connections/ Terminal	le		0 mm		
type of electrical con					
 for main current 			screw-type terminals		
arrangement of elect	rical connectors for	main current	Top and bottom		
circuit					
type of connectable of		tions			
 for main contact 					
— solid or stra			2x (0,75 2,5 mm²), 2x 4		
	ded with core end pro	cessing	2x (0.5 1.5 mm²), 2x (0.	75 2.5 mm²)	
tightening torque					
 for main contact 	s with screw-type term	ninals	0.8 1.2 N·m		
design of screwdrive	design of screwdriver shaft		Diameter 5 to 6 mm		
size of the screwdriv	size of the screwdriver tip		Pozidriv size 2		
design of the thread	of the connection sc	rew			
for main contacts		M3			
Safety related data					
T1 value for proof test interval or service life according to IEC 61508		10 y			
protection class IP on the front according to IEC 60529		IP20			
		finder safe, for vertical contact from the front			
touch protection on the front according to IEC 60529 display version for switching status		finger-safe, for vertical contact from the front			
			Handle		
Certificates/ approvals					
General Product App	proval		Declaration of Co	onformity	Test Certificates
<u>Confirmation</u>	<u>KC</u>	EHC	CE EG-Konf.	UK CA	Special Test Certific- ate
Test Certificates	Marine / Shipping				
<u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS		Llovd's Register urs	PRS
Marine / Shipping		other		Railway	
		Confirmatio	•	Vibration and Shock	Confirmation

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=3RV2011-1EA10-0BA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1EA10-0BA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1EA10-0BA0

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

 $\underline{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1EA10-0BA0\&lang=endersetereee$

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1EA10-0BA0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1EA10-0BA0&objecttype=14&gridview=view1



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