SIEMENS

Data sheet

3RV2011-4AA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 10...16 A N-release 208 A screw terminal Standard switching capacity

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 (operating cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
electrical endurance (operating cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Weight	0.359 kg
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 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	74.698 kg
global warming potential [CO2 eq] during manufacturing	1.98 kg
global warming potential [CO2 eq] during sales	0.134 kg
global warming potential [CO2 eq] during operation	72.7 kg
global warming potential [CO2 eq] after end of life	-0.116 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
Main circuit	

number of poles for main current circuit	3
number of poles for main current circuit adjustable current response value current of the current-	 10 16 A
dependent overload release	10 10 A
type of voltage for main current circuit	AC
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	16 A
operational current	
• at AC-3 at 400 V rated value	16 A
• at AC-3e at 400 V rated value	16 A
operating power	
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
type of voltage for auxiliary and control circuit	AC/DC
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
maximum short-circuit current breaking capacity (Icu)	
at AC at 240 V rated value	100 kA
 at AC at 400 V rated value 	55 kA
 at AC at 500 V rated value 	10 kA
at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (Ics) at AC	
at 240 V rated value	100 kA
• at 400 V rated value	30 kA
• at 500 V rated value	5 kA
• at 690 V rated value	2 kA
	2101
response value current of instantaneous short-circuit trip unit	208 A
response value current of instantaneous short-circuit trip unit JL/CSA ratings	
UL/CSA ratings	
JL/CSA ratings full-load current (FLA) for 3-phase AC motor	208 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	208 A 16 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	208 A 16 A
JL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp]	208 A 16 A 16 A
JL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor	208 A 16 A 16 A 1 hp
JL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value	208 A 16 A 16 A
JL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor	208 A 16 A 16 A 1 hp 2 hp
JL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • at 230 V rated value • for 3-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value	208 A 16 A 16 A 1 hp 2 hp 3 hp
JL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor	208 A 16 A 16 A 1 hp 2 hp

product function a hort circuit frip magnode design of the short-circuit frip glipG 80 A mouting position any fastening method 80 mm design of the short frip 0 mm - downards 30 mm <tr< th=""><th colspan="6">Short-circuit protection</th></tr<>	Short-circuit protection					
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gespin protection of the true link for Theretor for short-circuit protection of the main circuit protection of the main circuit<						
• + 400 Y94'90'80 A• + 100 Y/94'90'80 A• + 100 Y/97'''• - 00000000000000000000000000000000000	design of the fuse link for IT network for short-circuit					
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statistical constraint of linearisationsbaselinationsinstanting positionanyfacturing methodscrew and snap-on mouning onto 35 mm DIN rail according to DIN EN 60715bright97 mmwidth45 mmdepth97 mmrequired spacing which slob-ty-side mounting at the side0 mm- wards30 mm <td>• at 400 V</td> <td>gL/gG 63 A</td>	• at 400 V	gL/gG 63 A				
Installation/ mounting dimensions any mounting position any fastening method serve and anap-on mounting onto 35 mm DIN rail according to DIN EN 40715 height 97 mm depth 97 mm required spacing 97 mm • for grounded parts at 400 V 0 mm - downwards 30 mm - upwards 30 mm - at the side 9 mm • for ive parts at 400 V - - downwards 30 mm - at the side 9 mm • for grounded parts at 500 V - - downwards 30 mm - upwards 30 mm - upwards 30 mm - at the side 9 mm • for igrounded parts at 500 V - - downwards 30 mm - upwards 50 mm - downwards 50 mm <td>• at 500 V</td> <td>gL/gG 50 A</td>	• at 500 V	gL/gG 50 A				
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		30 mm				
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design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip Pozidriv size 2 design of the thread of the connection screw Image: Screw Scr						
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design of the thread of the connection screw	design of screwdriver shaft	Diameter 5 to 6 mm				
-	size of the screwdriver tip	Pozidriv size 2				
• for main contacts M3	design of the thread of the connection screw					
	• for main contacts	M3				

Sofoty related data						
Safety related data	for opfoty function	V				
product function suitable	e for safety function	Yes	5			
suitability for use	tohing or	No				
 safety-related swit 	•					
	safety-related switching OFF		3			
	ervice life maximum st wear-related service life necessary		10 a			
		Yes	i			
proportion of dangerou		020 401	0/			
	rate according to SN 31					
	rate according to SN 3					
	10 value with high demand rate according to SN 31920 illure rate [FIT] with low demand rate according to SN		FIT			
ISO 13849						
device type according	to ISO 13849-1	3				
overdimensioning acco			3			
IEC 61508		ileocoodity ileo	,			
safety device type acco	ording to IEC 61508-2	Tvr	e A			
T1 value						
	val or service life accore	ding to IEC 10 a	a			
Electrical Safety						
protection class IP on t	the front according to	IEC 60529 IP2	0			
touch protection on the			er-safe, for vertical contact	t from the front		
Display						
display version for switch	hing status	Har	ndle			
Approvals Certificates	-					
ccc	EG-Konf.	UK CA	UL			
General Product Ap- proval	For use in hazardou	s locations	Test Certificates		Marine / Shipping	
BIS CRS	KEx ATEX	IECEx	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	
Marine / Shipping					other	
BUREAU VERITAS		Llovd's Register uts	PRS	RINA	<u>Miscellaneous</u>	
other		Railway		Environment		
<u>Confirmation</u>		<u>Special Test Certific-</u> <u>ate</u>	<u>Confirmation</u>	EPD	Siemens EcoTech	
Environment						

Further information

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=3RV2011-4AA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-4AA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-4AA10

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

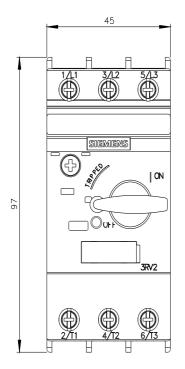
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-4AA10&lang=en

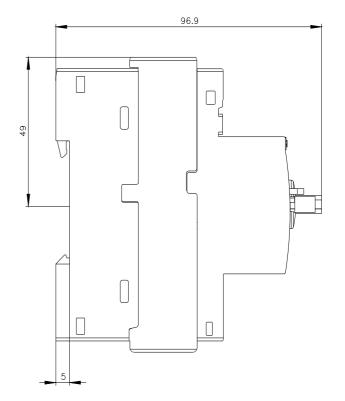
Characteristic: Tripping characteristics, I2t, Let-through current

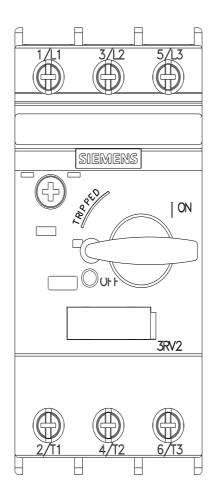
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-4AA10/char

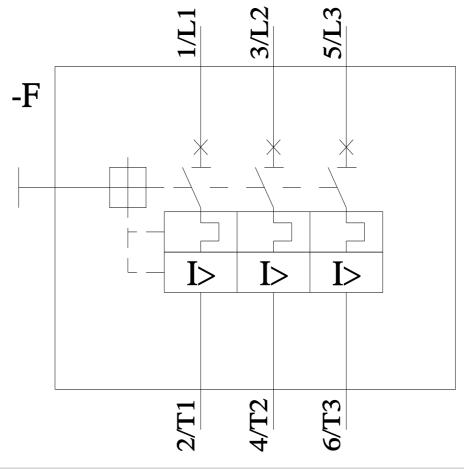
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-4AA10&objecttype=14&gridview=view1









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