SIEMENS

Data sheet

3RV2011-1KA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 9...12 A N-release 163 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
SVHC substance name	Lead - 7439-92-1
Weight	0.35 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	
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	

Induse of poins of notion to to the current 0 1.25 A operating voltage 2 0.00 V • at AC 3 make value maximum 000 V 000 V • at AC 3 make value maximum 000 V 000 V • at AC 3 make value maximum 000 V 000 V • at AC 3 make value maximum 000 V 000 V • at AC 3 make value maximum 000 V 000 V • at AC 3 make value maximum 000 V 000 V • at AC 3 make value maximum 000 V 000 V • at AC 3 make value maximum 12.5 A 000 V • at AC 3 make value maximum 12.5 A 000 V • at AC 3 make value 3.5 W 000 V • at AC 3 make value 3.5 W 000 V • at AC 3 make value 7.5 W 000 V • at AC 3 make value 7.5 W 000 V • at AC 3 make value 0.0 000 V • at AC 3 make value 0.0 000 V • at AC 3 make value 0.0 000 V • at AC 3 make value 0.0 000 V <tr< th=""><th>number of polos for main ourrant circuit</th><th>3</th></tr<>	number of polos for main ourrant circuit	3
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- at 575/600 V rated value 10 hp	 at 110/120 V rated value at 230 V rated value for 3-phase AC motor 	2 hp
	 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value 	2 hp 3 hp
Short-circuit protection	 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value 	2 hp 3 hp 3 hp
	 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value 	2 hp 3 hp 3 hp 8 hp

elsign of the short-scircul tip) regretcion essign of the subs for T evolves for short-scircul essign of the subs for T evolves for the subs for T evolves for T evolv	product function short circuit protection	Yes		
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protocino of the main circuit gLigS 83 A ••••••••••••••••••••••••••••••••••••				
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• set 90 V• gugG 40 AInstallation/ mounting petitionanyfastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height97 mmvidth45 mmdepth97 mmrequired spacingor mm- downwards30 mm- upwards30 mm- downwards30 mm- upwards30 mm- upwards30 mm- upwards30 mm- downwards30 mm- upwards30 mm- downwards30 mm- downwards50 mm- downwards50 mm- downwards60 mm- downwards50 mm-	• at 400 V	gL/gG 63 A		
Distribution mounting control any mounting position any fastening method screw and snap-on mounting on 0.35 mm DIN rail according to DIN EN 80715 height 97 mm required againg 97 mm • with slob-by-side mounting at the side 0 mm • for grounded parts at 400 V - - dortwards 30 mm - upwards 30 mm - at the side 9 mm • for grounded parts at 400 V - - dortwards 30 mm - upwards 30 mm - at the side 9 mm • for grounded parts at 500 V - - dortwards 30 mm - upwards 30 mm	● at 500 V	gL/gG 50 A		
monitoring position arry fastaning method serve an stop-on mounting onto 35 mm DNN rail according to DNN EN 60715 ineight 97 mm vidth 45 mm depth 97 mm required spacing intervision intervision 30 mm - downwards 30 mm - downwards 30 mm - upwards 50 mm	• at 690 V	gL/gG 40 A		
fashing methodsorew and samp on mounting onto 35 mm DIN rail according to DIN EN 60751width45 mmdepth97 mmrequired spacing- (with side Sp-side mounting at the side0 mm- downwards30 mm- downwards30 mm- upwards30 mm- upwards50 mm-	Installation/ mounting/ dimensions			
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	 for live parts at 500 V 			
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finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for main contacts2x (18 14), 2x 12tightening torque0.8 1.2 N·m• for main contacts with screw-type terminals0.8 1.2 N·mdesign of screwdriver shaftDiameter 5 to 6 mmsize of the screwdriver tipPozidriv size 2design of the thread of the connection screwM3• for main contactsM3	for main contacts			
• for AWG cables for main contacts 2x (18 14), 2x 12 tightening torque - • for main contacts with screw-type terminals 0.8 1.2 N·m 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 M3 • for main contacts M3	— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²		
tightening torque 0.8 • for main contacts with screw-type terminals 0.8 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 M3 • for main contacts M3	- finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
• for main contacts with screw-type terminals 0.8 1.2 N·m 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 M3 • for main contacts M3	 for AWG cables for main contacts 	2x (18 14), 2x 12		
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 M3 safety related data M3	tightening torque			
size of the screwdriver tip Pozidriv size 2 design of the thread of the connection screw M3 o for main contacts M3 Safety related data	 for main contacts with screw-type terminals 	0.8 1.2 N·m		
design of the thread of the connection screw • for main contacts Safety related data	design of screwdriver shaft	Diameter 5 to 6 mm		
• for main contacts M3 Safety related data	size of the screwdriver tip	Pozidriv size 2		
Safety related data	design of the thread of the connection screw			
	for main contacts	M3		
product function suitable for safety function Yes	Safety related data			
	product function suitable for safety function	Yes		

suitability for use					
•	tchina on		No		
 safety-related switching on safety-related switching OFF 		Yes			
service life maximum			10 a		
test wear-related servi	ce life necessarv		Yes		
proportion of dangerou					
	rate according to SN 31	920	40 %		
	rate according to SN 3		50 %		
B10 value with high de			5 000		
failure rate [FIT] with lo			50 FIT		
31920		ing to on			
ISO 13849					
device type according	to ISO 13849-1		3		
overdimensioning acc	ording to ISO 13849-2	necessary	Yes		
IEC 61508					
safety device type acc	ording to IEC 61508-2		Туре А		
T1 value					
 for proof test inter 61508 	val or service life accord	ding to IEC	10 a		
Electrical Safety					
protection class IP on	the front according to	IEC 60529	IP20		
touch protection on th	e front according to IE	C 60529	finger-safe, for vertical contact	t from the front	
Display					
display version for switc	hing status		Handle		
Approvals Certificates					
	EG-Konf.		UK CA	UL	
General Product Approval	For use in hazardous	s locations	Test Certificates		Marine / Shipping
EHC	IECEx	K ATEX	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS
Marine / Shipping					other
BUREAU		Llovds Register urs	PRS	RINA	<u>Miscellaneous</u>
other		Railway		Environment	
<u>Confirmation</u>	DE	<u>Special Test Cer</u> <u>ate</u>	<u>tific- Confirmation</u>	EPD	Siemens EcoTech
Environment					
Environmental Con- firmations					

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=3RV2011-1KA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1KA10

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

https://supp rt.industry.siemens.com/cs/ww/en/ps/3RV2011-1KA10

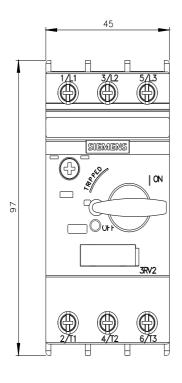
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1KA10&lang=en

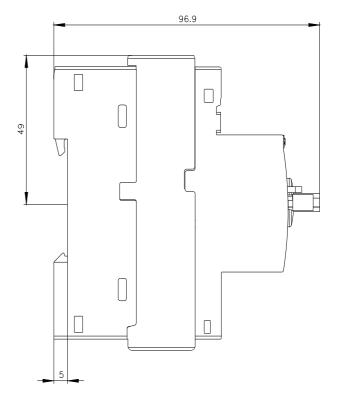
Characteristic: Tripping characteristics, I2t, Let-through current

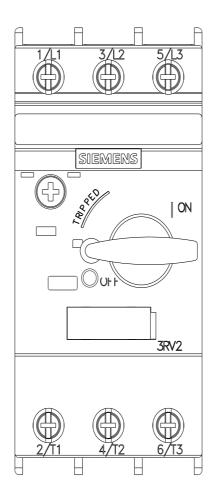
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1KA10/char

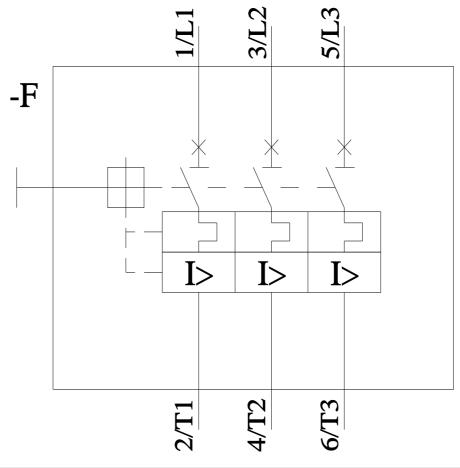
Further characteristics (e.g. electrical endurance, switching frequency)

earch&mlfb=3RV2011-1KA10&objecttype=14&gridview=view1 http://www.automation.siemens.com/bilddb/index.aspx?view=S









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