3RV2011-1AA20-0BA0

Data sheet





Special type Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.1...1.6 A N-release 21 A Spring-type terminal Standard switching capacity Ambient temperature -50 $^{\circ}$ C 500 switching cycles



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 (operating cycles)	
 of the main contacts typical 	500
of auxiliary contacts typical	500
electrical endurance (operating cycles) typical	500
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Weight	0.37 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-50 +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	

number of poles for main current circuit 3 adjustable current sepons value current of the current dependent overload release 1.1 . 1.6 A coperating voltage * rided value 600 V * at AC-3 rated value maximum 600 V * at AC-3 rated value maximum 600 V * at AC-3 rated value maximum 600 V poperation current rated value 1.6 A * at AC-3 at 400 V rated value 1.6 A * at AC-3 at 400 V rated value 0.5 NW - at 230 V rated value 0.5 NW - at 300 V rated value 0.5 NW - at 500 V rated value 0.5 NW - at 600 V rated value 0.5 NW - at 760 V rated value 0.5 NW - at 760 V rated value 0.0 NW - at AC-3 randown 15 1/h Abacting relevant 0.0 NW - product function 0.0 NW - phase failure detection NW <tr< th=""><th></th><th></th></tr<>		
	number of poles for main current circuit	3
* at AC-3 rated value maximum		1.1 1.6 A
* at AC-3 rated value maximum	operating voltage	
# A AC-3 rated value maximum		20 690 V
# AIR AC-3c rated value	• at AC-3 rated value maximum	
operating frequency rated value		
operational current rated value 1.6. A		
Section Current		
* at AC-3 at 400 V rated value		
• at AC-3e at 400 V rated value	•	16 A
Operating power * al AC-3		
		0.3 kW
— at 890 V rated value		
operating frequency • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts product function • ground fault detection • ground fault detection • phase failure detection • product function • ground fault detection • phase failure detecti		
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number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts product function		10 1/11
number of NO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 reflective and monitoring functions product function		
number of CO contacts for auxiliary contacts Protective and monitoring functions product function		
Protective and monitoring functions product function • ground fault detection • phase failure detection • phase failure detection Yes CLASS 10 design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at 240 V rated value • at 500 V rated value • at 600 V rate	-	
product function		U
• ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 500 V at active trip trip trip trip trip trip trip trip	Protective and monitoring functions	
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design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value product function short circuit protection gesponse value current of instantaneous short-circuit trip unit Short-circuit protection product function short circuit protection design of the fuse link for IT network for short-circuit protection of the main circuit • at 500 V • at 500 V • at 690 V at 690 V at 690 V gr 62 A gr 63 A gr 64 A Installation/mounting/dimensions mounting position fastening method height depth 97 mm required spacing • with side-by-side mounting at the side • for grounded parts at 400 V —downwards 30 mm 30 mm 30 mm	phase failure detection	Yes
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* at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC * at 240 V rated value * at 400 V rated value * at 400 V rated value * at 500 V rated value * at 690 V rated value Product function short circuit trip unit Short-circuit protection Product function short circuit protection ### Add at 690 V gG 20 A * at 690 V at 500 V at 690 V statisticular mounting/ dimensions ### Mounting position fastening method fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height ### 45 mm depth ### 45 mm depth ### 45 mm equired spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards 30 mm 30 mm	• at AC at 400 V rated value	100 kA
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● at 690 V Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 106 mm width 45 mm depth required spacing ● with side-by-side mounting at the side of or grounded parts at 400 V — downwards — upwards 9G 16 A any gG 16 A any ony ony ony ony ony ony gG 16 A any ony ony ony ony ony ony on	•	aG 20 A
Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 106 mm width 45 mm depth 97 mm required spacing • with side-by-side mounting at the side 0 mm • for grounded parts at 400 V — downwards — upwards 30 mm - upwards 30 mm		
mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 106 mm width 45 mm depth required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards 30 mm 30 mm		34 .4.1
fastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height106 mmwidth45 mmdepth97 mmrequired spacing0 mm• with side-by-side mounting at the side0 mm• for grounded parts at 400 V0 mm— downwards30 mm— upwards30 mm		any
height 106 mm width 45 mm depth 97 mm required spacing • with side-by-side mounting at the side 0 mm • for grounded parts at 400 V — downwards 30 mm — upwards 30 mm		·
width 45 mm depth 97 mm required spacing • with side-by-side mounting at the side 0 mm • for grounded parts at 400 V — downwards 30 mm — upwards 30 mm		
depth 97 mm required spacing 0 mm with side-by-side mounting at the side 0 mm for grounded parts at 400 V 30 mm — downwards 30 mm — upwards 30 mm		
required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards 30 mm 30 mm		
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 for grounded parts at 400 V — downwards — upwards 30 mm 30 mm 		0.000
downwardsupwards30 mm30 mm		UTIIII
— upwards 30 mm	-	
at the side	·	
— at the side	— at the side	9 mm

• for live parts at 400 V 30 mm - downwards - upwards 30 mm — at the side 9 mm • for grounded parts at 500 V - downwards 30 mm - upwards 30 mm — at the side 9 mm • for live parts at 500 V — downwards 30 mm - upwards 30 mm 9 mm - at the side • for grounded parts at 690 V - downwards 50 mm 50 mm — upwards - 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 Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals arrangement of electrical connectors for main current Top and bottom circuit type of connectable conductor cross-sections • for main contacts - solid or stranded 2x (0,5 ... 4 mm²) - finely stranded with core end processing 2x (0.5 ... 2.5 mm²) - finely stranded without core end processing 2x (0.5 ... 2.5 mm²) design of screwdriver shaft Diameter 3 mm size of the screwdriver tip 3,0 x 0,5 mm IEC 61508 T1 value • for proof test interval or service life according to IEC 10 a 61508 **Electrical Safety** protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front display version for switching status Handle Approvals Certificates **General Product Approval Test Certificates** Confirmation <u>KC</u> Type Test Certific-**Test Certificates** Marine / Shipping

Special Test Certificate











Marine / Shipping other Railway



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=3RV2011-1AA20-0BA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1AA20-0BA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1AA20-0BA0

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

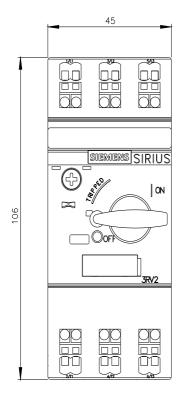
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1AA20-0BA0&lang=en

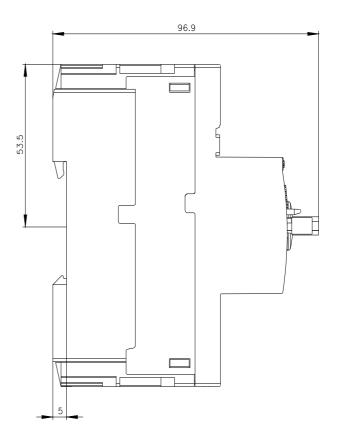
Characteristic: Tripping characteristics, I2t, Let-through current

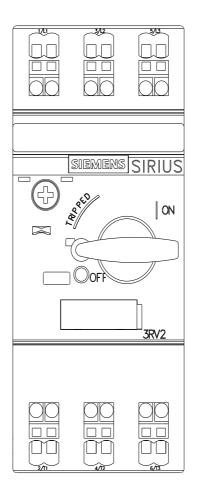
nttps://support.industry.siemens.com/cs/ww/en/ps/3Rv2011-1AA20-0BAU/cna

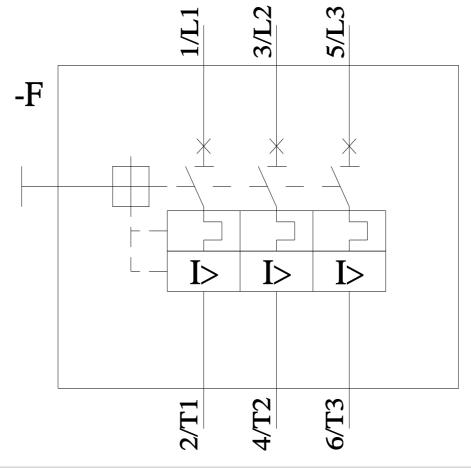
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1AA20-0BA0&objecttype=14&gridview=view1









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