## SIEMENS

## Data sheet

## 3RV2011-0CA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.18...0.25 A N-release 3.3 A screw terminal Standard switching capacity

2/11 2/12 6/13	
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	
<ul> <li>at AC in hot operating state</li> </ul>	5.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.8 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)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000
electrical endurance (operating 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	
<ul> <li>during operation</li> </ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-50 +80 °C
<ul> <li>during transport</li> </ul>	-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	0.18 0.25 A
operating voltage	
<ul> <li>rated value</li> </ul>	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.25 A

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operational current	0.05 A
<ul> <li>at AC-3 at 400 V rated value</li> <li>at AC-3e at 400 V rated value</li> </ul>	0.25 A
	0.25 A
operating power • at AC-3	
<ul> <li>at AC-3</li> <li>— at 230 V rated value</li> </ul>	0 kW
- at 400 V rated value	0.06 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
• at AC-3e	
— at 230 V rated value	0 kW
— at 400 V rated value	0.06 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
operating frequency	
<ul> <li>at AC-3 maximum</li> </ul>	15 1/h
<ul> <li>at AC-3e maximum</li> </ul>	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
<ul> <li>phase failure detection</li> </ul>	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (lcu)	
<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 690 V rated value</li> </ul>	100 kA
operating short-circuit current breaking capacity (Ics) at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
at 400 V rated value	100 kA
at 500 V rated value	100 kA
• at 690 V rated value	100 kA
response value current of instantaneous short-circuit trip unit	3.3 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	0.25 A
• at 600 V rated value	0.25 A
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
haireh4	60715 07 mm
height	97 mm
width	45 mm
depth required spacing	97 mm
with side-by-side mounting at the side	0 mm
<ul> <li>for grounded parts at 400 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for live parts at 400 V</li> </ul>	
<ul> <li>for live parts at 400 v</li> <li>— downwards</li> </ul>	30 mm
	30 mm 30 mm

at the side     9 mm       • for grounded parts at 500 V     30 mm       upwards     30 mm       upwards     30 mm       at the side     9 mm       • for live parts at 500 V	
- downwards30 mm- upwards30 mm- at the side9 mm• for live parts at 500 V downwards30 mm- upwards30 mm- at the side9 mm• for grounded parts at 690 V downwards50 mm- upwards50 mm- upwards50 mm- backwards0 mm- for vards0 mm- for wards0 mm- for live parts at 690 V downwards50 mm- backwards0 mm- forwards0 mm- forwards50 mm- downwards50 mm- forwards0 mm- forwards0 mm- forwards50 mm- upwards50 mm- downwards50 mm- forwards0 mm- forwards0 mm- forwards0 mm- backwards0 mm- at the side30 mm- forwards0 mm- forwards0 mm	
- upwards30 mm- at the side9 mm• for live parts at 500 V downwards30 mm- upwards30 mm- at the side9 mm• for grounded parts at 690 V downwards50 mm- upwards50 mm- backwards0 mm- at the side30 mm- browards0 mm- for wards0 mm- for live parts at 690 V downwards50 mm- backwards0 mm- at the side30 mm- for live parts at 690 V downwards50 mm- at the side0 mm- for live parts at 690 V downwards50 mm- forwards0 mm- for wards50 mm- upwards50 mm- upwards50 mm- backwards0 mm- backwards0 mm- forwards0 mm- forwards0 mm	
- at the side9 mm• for live parts at 500 V30 mm- downwards30 mm- upwards30 mm- at the side9 mm• for grounded parts at 690 V downwards50 mm- upwards50 mm- backwards0 mm- at the side30 mm- backwards0 mm- forwards0 mm- forwards0 mm- forwards0 mm- downwards50 mm- forwards0 mm- for live parts at 690 V downwards50 mm- backwards0 mm- for live parts at 690 V downwards50 mm- at the side30 mm- powerds0 mm- backwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- forwards0 mm- forwards0 mm	
<ul> <li>for live parts at 500 V</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>for grounded parts at 690 V</li> <li>downwards</li> <li>for grounded parts at 690 V</li> <li>downwards</li> <li>50 mm</li> <li>upwards</li> <li>50 mm</li> <li>backwards</li> <li>0 mm</li> <li>at the side</li> <li>0 mm</li> <li>for wards</li> <li>for live parts at 690 V</li> <li>for live parts at 690 V</li> <li>downwards</li> <li>for wards</li> <li>for mm</li> <li>at the side</li> <li>o mm</li> <li>for live parts at 690 V</li> <li>downwards</li> <li>for live parts at 690 V</li> <li>at the side</li> <li>o mm</li> <li>for live parts at 690 V</li> <li>o mm</li> <li>o for wards</li> <li>o mm</li> <li>o for mm</li> </ul>	
- downwards30 mm- upwards30 mm- at the side9 mm• for grounded parts at 690 V downwards50 mm- upwards50 mm- backwards0 mm- backwards0 mm- at the side30 mm- forwards0 mm- forwards50 mm- forwards0 mm- at the side30 mm- forwards50 mm- forwards50 mm- downwards50 mm- downwards50 mm- upwards50 mm- backwards0 mm- backwards0 mm- backwards0 mm- at the side30 mm- forwards0 mm	
<ul> <li>for grounded parts at 690 V</li> <li>downwards</li> <li>upwards</li> <li>upwards</li> <li>backwards</li> <li>mm</li> <li>backwards</li> <li>omm</li> <li>at the side</li> <li>forwards</li> <li>for live parts at 690 V</li> <li>downwards</li> <li>for live parts at 690 V</li> <li>downwards</li> <li>50 mm</li> <li>downwards</li> <li>50 mm</li> <li>for live parts at 690 V</li> <li>mm</li> <li>mm</li></ul>	
downwards50 mm upwards50 mm backwards0 mm at the side30 mm forwards0 mm for live parts at 690 V downwards50 mm upwards50 mm backwards0 mm backwards0 mm backwards0 mm at the side30 mm forwards0 mm	
upwards50 mm backwards0 mm at the side30 mm forwards0 mm- for live parts at 690 V downwards50 mm upwards50 mm backwards0 mm backwards0 mm at the side30 mm at the side30 mm forwards0 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         forwards       0 mm	
forwards     0 mm       • for live parts at 690 V     50 mm       downwards     50 mm       upwards     50 mm       backwards     0 mm       at the side     30 mm       forwards     0 mm	
for live parts at 690 V <ul> <li>downwards</li> <li>upwards</li> <li>backwards</li> <li>mm</li> <li>backwards</li> <li>mm</li> <li>at the side</li> <li>forwards</li> <li>mm</li> </ul> <li>Connections/ Terminals</li>	
downwards     50 mm       upwards     50 mm       backwards     0 mm       at the side     30 mm       forwards     0 mm	
upwards     50 mm       backwards     0 mm       at the side     30 mm       forwards     0 mm	
backwards     0 mm       at the side     30 mm       forwards     0 mm	
at the side     30 mm       forwards     0 mm       Connections/ Terminals	
- forwards 0 mm Connections/ Terminals	
Connections/ Terminals	
turne et electricel composition	
type of electrical connection	
for main current circuit     screw-type terminals	
arrangement of electrical connectors for main current Top and bottom	
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded 2x (0,75 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>	
$- \text{ finely stranded with core end processing} \qquad 2x (0.7  \dots  2.5  \text{mm}^2), 2x (0.75  \dots  2.5  \text{mm}^2)$	
at 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	
• for main contacts M3	
Safety related data	
• with high demand rate according to SN 31920 5 000	
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>50 %</li> </ul>	
failure rate [FIT] • with low demand rate according to SN 31920 50 FIT	
T1 value for proof test interval or service life according to IEC 61508 10 a	
protection class IP on the front according to IEC IP20	
60529	
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	
display version for switching status Handle	
Certificates/ approvals	
For use	e in hazard-
General Product Approval ous loc	
	-
	Ξxλ
	<u></u>
	ATEX
For use in hazard-	/ Shinning
For use in hazard- ous locationsDeclaration of ConformityTest CertificatesMarine	/ Shipping

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IECEx	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS			
Marine / Shipping					other			
B UREAU VERITAS		Lloyd's Register urs	PRS	RINA	<u>Confirmation</u>			
other	Railway							
VDE	<u>Confirmation</u>	<u>Vibration and Shock</u>						
Further information								
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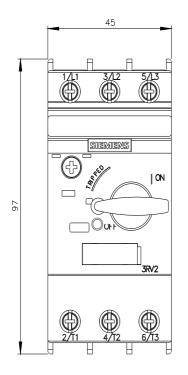
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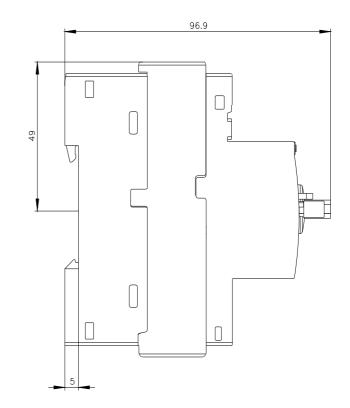
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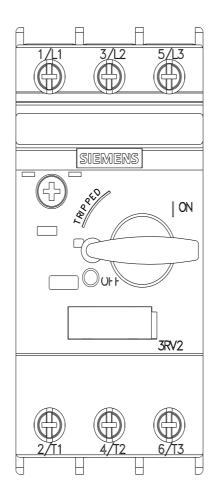
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Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0CA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0CA10&objecttype=14&gridview=view1

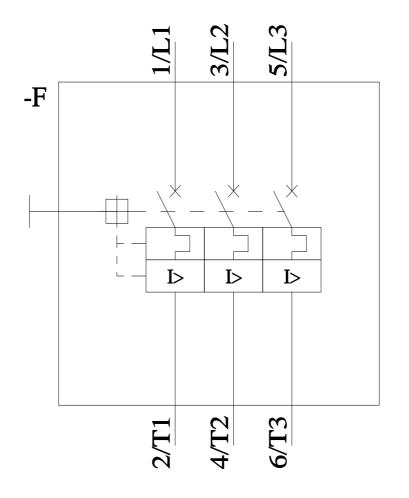






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