## **SIEMENS**

Data sheet 3RV2011-0GA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.45...0.63 A N-release 8.2 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

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	
at AC in hot operating state per pole	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 (switching cycles)		
<ul> <li>of the main contacts typical</li> </ul>	100 000	
of auxiliary contacts typical	100 000	
electrical endurance (switching 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	
during storage	-50 +80 °C	
during transport	-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	0.45 0.63 A	
operating voltage		
• rated value	20 690 V	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V	
• at AC-3e rated value maximum	690 V	

onerating frequency reted value	50 60 Hz
operating frequency rated value	0.63 A
operational current rated value operational current	0.00 A
at AC-3 at 400 V rated value	0.63 A
• at AC-3e at 400 V rated value	0.63 A
operating power	
• at AC-3	0.4.1344
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 kW
• at AC-3e	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 kW
operating frequency	
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 120 V	0.5 A
• at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
- αι ∠¬ ν	IA
• at 24 V	0.15 A
• at 60 V	
• at 60 V  Protective and monitoring functions	
• at 60 V  Protective and monitoring functions product function	0.15 A
• at 60 V  Protective and monitoring functions  product function  • ground fault detection	0.15 A No
<ul> <li>at 60 V</li> <li>Protective and monitoring functions</li> <li>product function</li> <li>ground fault detection</li> <li>phase failure detection</li> </ul>	0.15 A  No Yes
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class	0.15 A  No Yes CLASS 10
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class design of the overload release	0.15 A  No Yes
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class design of the overload release breaking capacity maximum short-circuit current (Icu)	0.15 A  No Yes CLASS 10 thermal
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class design of the overload release breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value	0.15 A  No Yes CLASS 10 thermal
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value     at AC at 500 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value     at AC at 500 V rated value     at AC at 690 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value     at AC at 500 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value     at AC at 500 V rated value     at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics)	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value     at AC at 500 V rated value     at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics) at AC	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA 100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value     at AC at 500 V rated value     at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA 100 kA 100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value     at AC at 500 V rated value     at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value  at 400 V rated value     at 400 V rated value     at 500 V rated value  at 500 V rated value  at 500 V rated value  at 500 V rated value  at 500 V rated value  at 500 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA 100 kA 100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value     at AC at 500 V rated value     at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value     at 400 V rated value     at 500 V rated value     at 690 V rated value     at 690 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value     at AC at 500 V rated value     at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value  at 400 V rated value     at 400 V rated value     at 500 V rated value  at 500 V rated value  at 500 V rated value  at 500 V rated value  at 500 V rated value  at 500 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA 100 kA 100 kA 100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value     at AC at 500 V rated value     at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value     at 400 V rated value     at 690 V rated value     sat 690 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 500 V rated value     at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value     at 690 V rated value  IUL/CSA ratings	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value     at AC at 500 V rated value     at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value     at 400 V rated value     at 690 V rated value     sat 690 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 500 V rated value     at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics) at AC  at 240 V rated value  breaking capacity operating short-circuit current (Ics) at AC  at 240 V rated value     at 690 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value     at AC at 500 V rated value     at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value     at 690 V rated value     at 690 V rated value  tresponse value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value  at 600 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA 100 kA 100 kA 100 kA 100 kA  100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 500 V rated value     at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value     at 690 V rated value  at 690 V rated value  response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value     at AC at 500 V rated value     at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value     at 400 V rated value     at 690 V rated value  response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA 100 kA 100 kA 100 kA 100 kA  100 kA 100 kA 100 kA 100 kA C300 / R300
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value     at AC at 500 V rated value     at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value     at 400 V rated value     at 500 V rated value     at 690 V rated value  response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA
at 60 V  Protective and monitoring functions  product function     ground fault detection     phase failure detection  trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu)     at AC at 240 V rated value     at AC at 400 V rated value     at AC at 500 V rated value     at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics) at AC     at 240 V rated value     at 400 V rated value     at 690 V rated value  response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value	0.15 A  No Yes CLASS 10 thermal  100 kA 100 kA 100 kA 100 kA 100 kA 100 kA  100 kA 100 kA 100 kA 100 kA C300 / R300

for short-circuit protection of the auxiliary switch required	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 690 V	gL/gG 6 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
<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>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— 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
	O THILL
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
solid or stranded	2v (0.75 2.5 mm²) 2v 4 mm²
	2x (0,75 2,5 mm²), 2x 4 mm² 2x (0,5 1,5 mm²), 2x (0,75 3,5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for main contacts  type of connectable conductor cross sections.	2x (18 14), 2x 12
type of connectable conductor cross-sections	
• for auxiliary contacts	Ov (0.5 4.5 mans?) Ov (0.75 0.5 mins?)
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
tightening torque	
for main contacts with screw-type terminals	0.8 1.2 N·m
for auxiliary 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	
<ul> <li>for main contacts</li> </ul>	M3
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
Safety related data	
B10 value	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	5 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
failure rate [FIT]	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 FIT
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
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	

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**General Product Approval** 

Confirmation





<u>KC</u>



For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 









Special Test Certificate Type Test Certificates/Test Report

## Marine / Shipping













Marine / Shipping

other

Railway



Confirmation



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=3RV2011-0GA15

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2011-0GA15}$ 

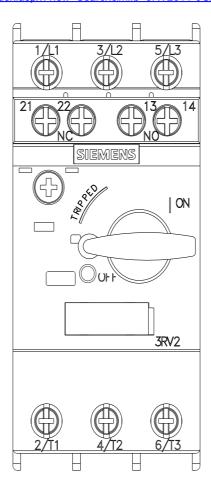
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0GA15

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-0GA15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current



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