














circuit breaker frame size S00 for motor protection, Class 10 thermal release 0.11...0.16 A short-circuit release 2.1 A screw terminal standard switching capacity with transverse auxiliary switch 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	
• at AC in hot operating state	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 (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 CAS-No. 7439-92-1
Net Weight	294 g
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 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	0.11 ... 0.16 A
type of voltage for main current circuit	AC
operating voltage	
• rated value	20 ... 690 V

<ul style="list-style-type: none"> ● at AC-3 rated value maximum 	690 V
<ul style="list-style-type: none"> ● at AC-3e rated value maximum 	690 V
operating frequency rated value	50 ... 60 Hz
operational current rated value	0.16 A
operational current	
<ul style="list-style-type: none"> ● at AC-3 at 400 V rated value 	0.16 A
<ul style="list-style-type: none"> ● at AC-3e at 400 V rated value 	0.16 A
operating power	
<ul style="list-style-type: none"> ● at AC-3 <ul style="list-style-type: none"> — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value 	0 kW 0.04 kW 0.1 kW 0.1 kW
<ul style="list-style-type: none"> ● at AC-3e <ul style="list-style-type: none"> — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value 	0 kW 0.04 kW 0.1 kW 0.1 kW
operating frequency	
<ul style="list-style-type: none"> ● at AC-3 maximum 	15 1/h
<ul style="list-style-type: none"> ● at AC-3e maximum 	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
type of voltage for auxiliary and control circuit	AC/DC
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	
<ul style="list-style-type: none"> ● at 24 V ● at 120 V ● at 125 V ● at 230 V 	2 A 0.5 A 0.5 A 0.5 A
operational current of auxiliary contacts at DC-13	
<ul style="list-style-type: none"> ● at 24 V ● at 60 V 	1 A 0.15 A
Protective and monitoring functions	
product function	
<ul style="list-style-type: none"> ● ground fault detection ● phase failure detection 	No Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (I_{cu})	
<ul style="list-style-type: none"> ● 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 	100 kA 100 kA 100 kA 100 kA
operating short-circuit current breaking capacity (I_{cs}) at AC	
<ul style="list-style-type: none"> ● at 240 V rated value ● at 400 V rated value ● at 500 V rated value ● at 690 V rated value 	100 kA 100 kA 100 kA 100 kA
response value current of instantaneous short-circuit trip unit	2.1 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul style="list-style-type: none"> ● at 480 V rated value ● at 600 V rated value 	0.16 A 0.16 A
contact rating of auxiliary contacts according to UL	C300 / R300
UL File Number (CCN)	E47705 (NLRV, NLRV7), E156943 (NKJH, NKJH7)
Short-circuit protection	

product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current $I_k < 400$ A)
<ul style="list-style-type: none"> for short-circuit protection of the auxiliary switch required 	
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	<ul style="list-style-type: none"> with side-by-side mounting at the side for grounded parts at 400 V <ul style="list-style-type: none"> — downwards — upwards — at the side for live parts at 400 V <ul style="list-style-type: none"> — downwards — upwards — at the side for grounded parts at 500 V <ul style="list-style-type: none"> — downwards — upwards — at the side for live parts at 500 V <ul style="list-style-type: none"> — downwards — upwards — at the side for grounded parts at 690 V <ul style="list-style-type: none"> — downwards — upwards — backwards — at the side — forwards for live parts at 690 V <ul style="list-style-type: none"> — downwards — upwards — backwards — at the side — forwards
0 mm	
30 mm	
30 mm	
9 mm	
30 mm	
30 mm	
9 mm	
30 mm	
30 mm	
9 mm	
30 mm	
30 mm	
9 mm	
50 mm	
50 mm	
0 mm	
30 mm	
0 mm	
50 mm	
50 mm	
0 mm	
30 mm	
0 mm	
Connections/ Terminals	
type of electrical connection	screw-type terminals
<ul style="list-style-type: none"> for main current circuit for auxiliary and control circuit 	
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	<ul style="list-style-type: none"> 2x (0,75 ... 2,5 mm²), 2x 4 mm² 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²) 2x (18 ... 14), 2x 12
<ul style="list-style-type: none"> for main contacts <ul style="list-style-type: none"> — solid or stranded — finely stranded with core end processing for AWG cables for main contacts 	
<ul style="list-style-type: none"> for auxiliary contacts <ul style="list-style-type: none"> — solid or stranded — finely stranded with core end processing for AWG cables for auxiliary contacts 	
type of connectable conductor cross-sections	<ul style="list-style-type: none"> 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²) 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²) 2x (20 ... 16), 2x (18 ... 14)
<ul style="list-style-type: none"> for auxiliary contacts <ul style="list-style-type: none"> — solid or stranded — finely stranded with core end processing for AWG cables for auxiliary contacts 	
<ul style="list-style-type: none"> for auxiliary contacts <ul style="list-style-type: none"> — solid or stranded — finely stranded with core end processing for AWG cables for auxiliary contacts 	
tightening torque	0.8 ... 1.2 N·m
<ul style="list-style-type: none"> for main contacts with screw-type terminals 	

<ul style="list-style-type: none"> 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 style="list-style-type: none"> for main contacts 	M3	
<ul style="list-style-type: none"> of the auxiliary and control contacts 	M3	
Safety related data		
product function suitable for safety function	Yes	
suitability for use		
<ul style="list-style-type: none"> safety-related switching on 	No	
<ul style="list-style-type: none"> safety-related switching OFF 	Yes	
service life maximum	10 a	
test wear-related service life necessary	Yes	
proportion of dangerous failures		
<ul style="list-style-type: none"> with low demand rate according to SN 31920 	40 %	
<ul style="list-style-type: none"> with high demand rate according to SN 31920 	50 %	
B10 value with high demand rate according to SN 31920	5 000	
failure rate [FIT] with low demand rate according to SN 31920	50 FIT	
ISO 13849		
device type according to ISO 13849-1	3	
overdimensioning according to ISO 13849-2 necessary	Yes	
IEC 61508		
safety device type according to IEC 61508-2	Type A	
T1 value		
<ul style="list-style-type: none"> for proof test interval or service life according to IEC 61508 	10 a	
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		
display version for switching status	Handle	
Approvals Certificates		
Environmental Product Declaration		
<ul style="list-style-type: none"> global warming potential [CO2 eq] / during manufacturing 	1.98 kg	
<ul style="list-style-type: none"> global warming potential [CO2 eq] / during sales 	0.134 kg	
<ul style="list-style-type: none"> global warming potential [CO2 eq] / during operation 	72.7 kg	
<ul style="list-style-type: none"> global warming potential [CO2 eq] / after end of life 	-0.116 kg	
<ul style="list-style-type: none"> global warming potential [CO2 eq] / total 	74.698 kg	
Environment	General Product Approval	
  Environmental Confirmations   		
General Product Approval	For use in hazardous locations	
     		
For use in hazardous locations	Test Certificates	Maritime application



IECEX

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



ABS



BUREAU VERITAS



DNV

Maritime application

other



LRS



PRS



RINA

[Miscellaneous](#)



[Confirmation](#)

other

Railway

[Miscellaneous](#)

[Special Test Certificate](#)

[Confirmation](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RV2011-0AA15>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0AA15>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0AA15&lang=en

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0AA15>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)





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