## SIEMENS

## Data sheet

## 3RV1011-0AA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.11...0.16 A N-release 2.1 A Screw terminal Standard switching capacity

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV1
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00
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
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
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/01/2013
SVHC substance name	Lead - 7439-92-1
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
number of poles for main current circuit adjustable current response value current of the current- dependent overload release	3 0.11 0.16 A
adjustable current response value current of the current-	
adjustable current response value current of the current- dependent overload release	
adjustable current response value current of the current- dependent overload release operating voltage	0.11 0.16 A
adjustable current response value current of the current- dependent overload release operating voltage • rated value	0.11 0.16 A 20 690 V
adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum	0.11 0.16 A 20 690 V 690 V
adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum	0.11 0.16 A 20 690 V 690 V 690 V
adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value	0.11 0.16 A 20 690 V 690 V 690 V 50 60 Hz
adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value	0.11 0.16 A 20 690 V 690 V 690 V 50 60 Hz

operating power			
• at AC-3			
— at 230 V rated value	0 kW		
— at 400 V rated value	0.04 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	0.04 kW		
— at 500 V rated value	0.1 kW		
— at 690 V rated value	0.1 kW		
operating frequency			
• at AC-3 maximum	15 1/h		
• at AC-3e maximum	15 1/h		
Auxiliary circuit			
number of CO contacts for auxiliary contacts	0		
Protective and monitoring functions	0		
product function	No		
ground fault detection	No		
phase failure detection	Yes		
trip class	CLASS 10		
design of the overload release	thermal		
maximum short-circuit current breaking capacity (Icu)			
• at AC at 240 V rated value	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		
at AC at 690 V rated value	100 kA		
operating short-circuit current breaking capacity (Ics) at AC			
• at 240 V rated value	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	2.1 A		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
• at 480 V rated value	0.16 A		
• at 600 V rated value	0.16 A		
Short-circuit protection			
product function short circuit protection	Yes		
design of the short-circuit trip	magnetic		
design of the fuse link for IT network for short-circuit protection of the main circuit			
• at 240 V	none required		
• at 400 V	None required		
• at 500 V	None required		
• at 690 V	None 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	90 mm		
width	45 mm		
depth	75 mm		
required spacing			
for grounded parts at 400 V	20 mm		
— downwards	20 mm		
— upwards	20 mm		
— at the side	9 mm		
• for live parts at 400 V			
— downwards	20 mm		
— upwards	20 mm		
— at the side	9 mm		

e for grounded parts at 500 V			
for grounded parts at 500 V	20 mm		
— downwards	20 mm		
— upwards	20 mm		
— at the side	9 mm		
<ul> <li>for live parts at 500 V</li> </ul>			
— downwards	20 mm		
— upwards	20 mm		
— at the side	9 mm		
<ul> <li>for grounded parts at 690 V</li> </ul>			
— downwards	20 mm		
— upwards	20 mm		
— backwards	0 mm		
— at the side	9 mm		
— forwards	0 mm		
<ul> <li>for live parts at 690 V</li> </ul>			
— downwards	20 mm		
— upwards	20 mm		
— backwards	0 mm		
— at the side	9 mm		
— forwards	0 mm		
Connections/ Terminals			
type of electrical connection			
for main current circuit	screw-type terminals		
arrangement of electrical connectors for main current	Top and bottom		
circuit			
type of connectable conductor cross-sections			
<ul> <li>for main contacts</li> </ul>			
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
type of connectable conductor cross-sections			
<ul> <li>for auxiliary contacts</li> </ul>			
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
tightening torque			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m		
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m		
size of the screwdriver tip	Pozidriv size 2		
design of the thread of the connection screw			
for main contacts	M3		
Safety related data	ino		
product function suitable for safety function	Yes		
	103		
suitability for use	No		
safety-related switching on			
safety-related switching OFF	Yes		
service life maximum	10 a		
test wear-related service life necessary	Yes		
proportion of dangerous failures	40.07		
with low demand rate according to SN 31920	40 %		
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	Туре А		
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	Rocker switch		

Approvals Certificates					
General Product Appr	oval				
	CE EG-Konf.	<u>Confirmation</u>	UK CA		<u>KC</u>
General Product Approval	For use in hazardous	locations	Test Certificates		Marine / Shipping
EHC	KEx ATEX	IECEx	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS
Marine / Shipping					
B U R E A U VERITAS		Lloyds Register us	PRS	RINA	RMRS
other			Railway	Environment	
<u>Confirmation</u>	<u>Miscellaneous</u>	DE	<u>Special Test Certific-</u> ate	Environmental Con- firmations	
	<u>siemens.com/cs/ww/en/vi</u> nloadcenter (Catalogs, E				

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1011-0AA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0AA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0AA10

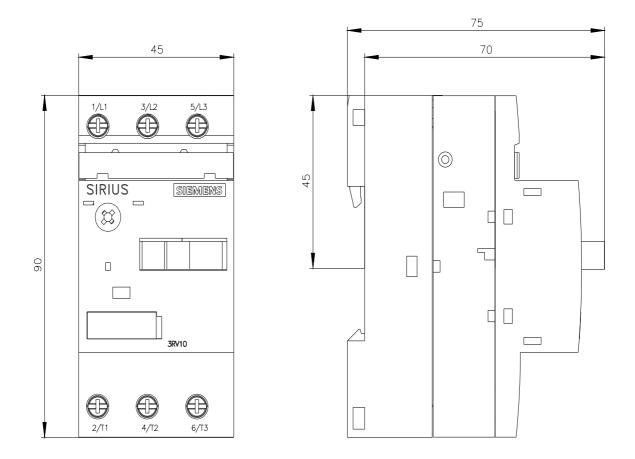
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

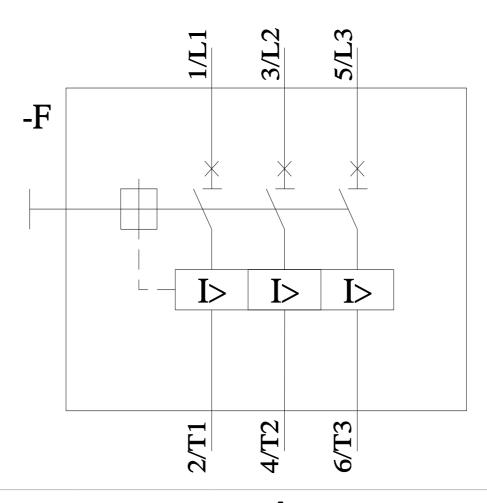
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV1011-0AA10&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0AA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0AA10&objecttype=14&gridview=view1





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