SIEMENS

Data sheet

3RV1011-0DA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.22...0.32 A N-release 4.2 A Screw terminal 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			
 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		
mechanical service life (switching cycles)			
 of the main contacts typical 	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)	01/01/2013		
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	0.22 0.32 A		
operating voltage			
 rated value 	20 690 V		
 at AC-3 rated value maximum 	690 V		
• at AC-3e rated value maximum	690 V		
operating frequency rated value	50 60 Hz		

	0.00.4
operational current rated value	0.32 A
operational current	
 at AC-3 at 400 V rated value 	0.32 A
• at AC-3e at 400 V rated value	0.32 A
operating power	
• at AC-3	
— at 230 V rated value	0 kW
— at 400 V rated value	0.09 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	0.09 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
	0
Protective and monitoring functions	
product function	
 ground fault detection 	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity maximum short-circuit current (lcu)	
 at AC at 240 V rated value 	100 kA
 at AC at 400 V rated value 	100 kA
 at AC at 500 V rated value 	100 kA
 at AC at 690 V rated value 	100 kA
breaking capacity operating short-circuit current (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	4.2 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.32 A
at 400 V rated value at 600 V rated value	0.32 A
	0.02 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 standard mounting rail according to DIN EN 60715
height	-
height	90 mm
height width depth	-

• for live parts at 400 V	
- downwards 20 mm	
— upwards 20 mm	
— at the side 9 mm	
 for grounded parts at 500 V 	
— downwards 20 mm	
— upwards 20 mm	
- at the side 9 mm	
• for live parts at 500 V	
- downwards 20 mm	
— upwards 20 mm	
- at the side 9 mm	
• for grounded parts at 690 V	
— downwards 20 mm — upwards 20 mm	
— upwards 20 mm — backwards 0 mm	
— backwards 0 mm — at the side 9 mm	
— at the side 9 mm — forwards 0 mm	
for live parts at 690 V	
- 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 circuit Top and bottom	
type of connectable conductor cross-sections	
for main contacts	
solid or stranded 2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x (1 4 mm ²)	
- finely stranded with core end processing 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)	
type of connectable conductor cross-sections	
for auxiliary contacts	
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	
size of the screwdriver tip Pozidriv size 2	
design of the thread of the connection screw	
• for main contacts M3	
• for main contacts M3 Safety related data	
Safety related data	
Safety related data B10 value	
Safety related data B10 value • with high demand rate according to SN 31920 5 000	
Safety related data B10 value • with high demand rate according to SN 31920 5 000 proportion of dangerous failures	
Safety related data B10 value • with high demand rate according to SN 31920 5 000 proportion of dangerous failures • with low demand rate according to SN 31920 50 %	
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Safety related data B10 value • with high demand rate according to SN 31920 5 000 proportion of dangerous failures • with low demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % failure rate [FIT]	
Safety related data B10 value • with high demand rate according to SN 31920 5 000 proportion of dangerous failures • with low demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % failure rate [FIT] • with low demand rate according to SN 31920 50 FIT protection class IP on the front according to IEC	
Safety related data B10 value • with high demand rate according to SN 31920 5 000 proportion of dangerous failures • with low demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % failure rate [FIT] • with low demand rate according to SN 31920 50 FIT protection class IP on the front according to IEC 60529	
Safety related data B10 value • with high demand rate according to SN 31920 5 000 proportion of dangerous failures • with low demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % failure rate [FIT] • with low demand rate according to SN 31920 50 FIT protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	

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					ous locations		
	<u>Confirmation</u>			EHC	K ATEX		
For use in hazard- ous locations	Declaration of Confo	rmity	Test Certificates		Marine / Shipping		
IECEx	C C EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS		
Marine / Shipping							
B U R E A U VERITAS	Lloyds Register urs	PRS	RINA	KMRS	DNV-GL		
other			Railway				
<u>Confirmation</u>	<u>Miscellaneous</u>	UDE VDE	Special Test Certific- ate				
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=3RV1011-0DA10 Cax online generator							

Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0DA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0DA10

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

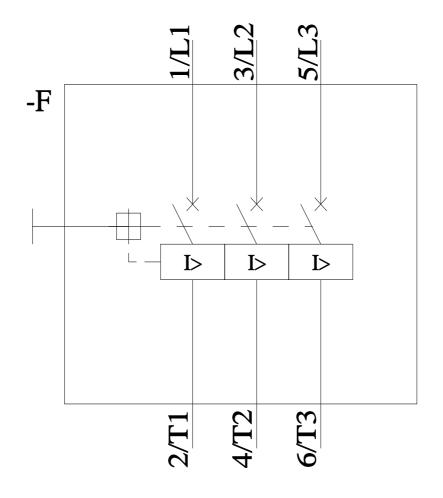
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0DA10&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0DA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0DA10&objecttype=14&gridview=view1



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