SIEMENS

Data sheet

3RV2011-0DA20



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.22...0.32 A N-release 4.2 A Spring-type terminal Standard switching capacity

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		
maximum permissible voltage for safe isolation in networks with grounded star point			
 between main and auxiliary circuit 	400 V		
 between main and auxiliary circuit 	400 V		
shock resistance acc. to IEC 60068-2-27	25g / 11 ms		
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 acc. to IEC 81346-2	Q		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
 ambient temperature during operation 	-20 +60 °C		
 ambient temperature during storage 	-50 +80 °C		
ambient temperature during transport	-50 +80 °C		
temperature compensation	-20 +60 °C		
relative humidity during operation	10 95 %		
Main circuit			
number of poles for main current circuit	3		
adjustable current response value current of the	0.22 0.32 A		



current-dependent overload release	
 operating voltage rated value 	690 V
 operating voltage at AC-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.32 A
operational current at AC-3 at 400 V rated value	0.32 A
operating power at AC-3	
at 230 V rated value	40 W
 at 400 V rated value 	90 W
• at 500 V rated value	120 W
 at 690 V rated value 	120 W
operating frequency at AC-3 maximum	15 1/h
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
	0
number of NO contacts for auxiliary contacts	
number of CO contacts for auxiliary contacts	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 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
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
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 600 V rated value	0.32 A
Short-circuit protection	0.0277
	Yes
product function short circuit protection design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	magnetic
	2014
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
height	106 mm
width	45 mm
depth	97 mm
required spacing	
 for grounded parts at 400 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for live parts at 400 V 	
 Hor live parts at 400 v — downwards 	30 mm
	oo min
	30 mm
— upwards — at the side	30 mm 9 mm



IP20 finger-safe, for vertical contact from the front Handle	For use in hazardous locations
finger-safe, for vertical contact from the front	
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finger-safe, for vertical contact from the front	
50 FIT	
50 %	
50 %	
5 000	
3,0 x 0,5 mm	
2x (0.5 2.5 mm ²)	
2x (0,5 4 mm ²)	
Top and bottom	
spring-loaded terminals	
No	
0 mm	
30 mm	
0 mm	
50 mm	
50 mm	
0 mm	
30 mm	
50 mm	
5 mm	
9 mm	
30 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 0 mm 50 mm 0 mm 30 mm 10 mm

For use in hazardous locations	Declaration of Conformity		Test Certificates		Marine / Shipping		
KEx ATEX	CE EG-Konf.	<u>Miscellaneous</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	<u>Special Test</u> <u>Certificate</u>	ABS		
Marine / Shipping							
BUREAU VERITAS	Lloyd's Register uts	PRS	RINA	RMRS RMRS			
other		Railway					
<u>Confirmation</u>		Vibration and Shock	<u>Confirmation</u>				
Eurthor information							
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=3RV2011-0DA20 Cax online generator							

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0DA20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0DA20

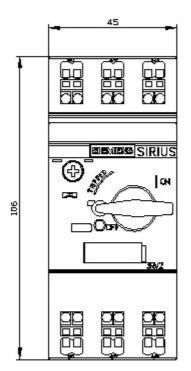
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0DA20&lang=en

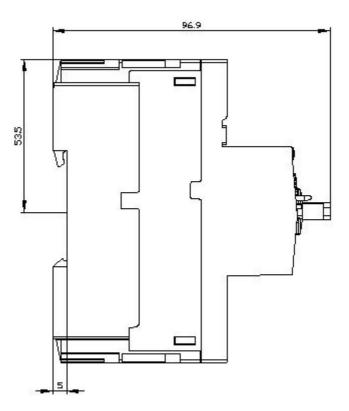
Characteristic: Tripping characteristics, I²t, Let-through current

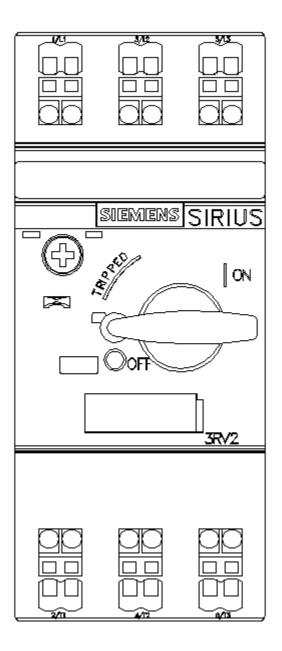
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0DA20/char

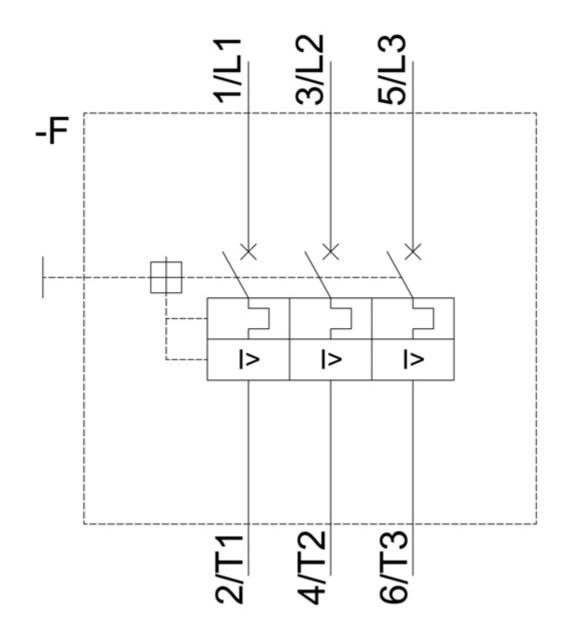
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0DA20&objecttype=14&gridview=view1









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