SIEMENS

Data sheet

3RV2711-0CD10



CIRCUIT-BREAKER SZ S00, FOR PLANT PROTECTION, WITH APPROBATION CIRCUIT-BREAKER UL 489. CSA C22.2 NO.5-02. A-RELEASE 0.25 A, N-RELEASE 3.3 A, SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name		SIRIUS
Product designation		3RV2 circuit breaker
General technical data:		
Active power loss total typical	W	5
Insulation voltage		
 with degree of pollution 3 Rated value 	V	690
Shock resistance		
• acc. to IEC 60068-2-27		25g / 11 ms
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
 of the main contacts typical 		100 000
 of the auxiliary contacts typical 		100 000
Electrical endurance (switching cycles)		
• typical		100 000
Temperature compensation	°C	-20 +60
Protection class IP		
• on the front		IP20
• of the terminal		IP20
Equipment marking		
• acc. to DIN EN 81346-2		Q
Main circuit:		
Number of poles for main current circuit		3
Operating voltage		
 Rated value 	V	690

Operating frequency Rated value		
	Hz	50 60
Operating power	-	
• at AC-3		
— at 230 V Rated value	W	40
— at 400 V Rated value	W	60
— at 500 V Rated value	W	90
— at 690 V Rated value	W	120
Operating frequency	-	
• at AC-3 maximum	1/h	15
uxiliary circuit:		
Number of NC contacts		
 for auxiliary contacts 		0
Number of NO contacts		
 for auxiliary contacts 		0
Number of CO contacts		
 for auxiliary contacts 		0
Product expansion Auxiliary switch		Yes
Protective and monitoring functions:	-	
Design of the overload circuit breaker		thermal
Operational short-circuit current breaking capacity (Ics) with AC		
at 240 V Rated value	kA	100
at 400 V Rated value	kA	100
at 500 V Rated value	kA	100
at 690 V Rated value	kA	100
Maximum short-circuit current breaking capacity (Icu)		
with AC at 240 V Rated value	kA	100
with AC at 240 V Rated value	kA	100
with AC at 500 V Rated value	kA	100
with AC at 500 V Rated value	kA	100
at 480 AC Y/277 V acc. to UL 489 Rated value	A	65 000
Breaking capacity short-circuit current (Icn)		
with 1 current path for DC at 150 V Rated value	kA	10
• with 2 current paths in series for DC at 300 V	kA	10
Rated value		
 with 3 current paths in series for DC at 450 V Rated value 	kA	10
Response value current of the instantaneous short-	А	3.3

Product function Short circuit protection		Yes
Design of the short-circuit trip		magnetic
Installation/ mounting/ dimensions:		
mounting position		any
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Height	mm	144
Width	mm	45
Depth	mm	97
Required spacing		
 with side-by-side mounting 		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	0
 for grounded parts 		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— at the side	mm	30
— downwards	mm	50
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	30

Connections/ Terminals:	
Type of electrical connection	
 for main current circuit 	screw-type terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
Product function	
 removable terminal for auxiliary and control circuit 	No
Type of connectable conductor cross-section	
 for main contacts 	
— single or multi-stranded	1 10 mm², max. 2x 10 mm²
— finely stranded with core end processing	1 16 mm², max. 6 + 16 mm²
 for AWG conductors for main contacts 	2x 14
Tightening torque	

 for main contacts with screw-type terminals 	N∙m	2.5 3
Design of screwdriver shaft		Diameter 5 to 6 mm
Design of the thread of the connection screw		
• for main contacts		M4
Safety related data:		
B10 value with high demand rate acc. to SN 31920		50 000
Proportion of dangerous failures		
 with low demand rate acc. to SN 31920 	%	40
 with high demand rate acc. to SN 31920 	%	40
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	50
T1 value for proof test interval or service life acc. to IEC 61508	У	10
Protection against electrical shock		finger-safe
Mechanical data:		
Size of the circuit-breaker		S00
Ambient conditions:		
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature	_	
 during operation 	°C	-20 +60
 during storage 	°C	-50 +80
• during transport	°C	-50 +80
Relative humidity during operation	%	10 95
Display:		
Display version		
 for switching status 		Handle
-		

Certificates/ approvals:

General Product	t Approval			Declaration of Conformity	Test Certificates
	CSA CSA		EHC	EG-Konf.	Special Test Certificate
Test Certificates	Shipping App	proval			
<u>Type Test</u> Certificates/Test <u>Report</u>	ABS	B U R E A U VERITAS	GL	Lloyd's Register LRS	PRS
Shipping Approv	/al	other			
RINA	RMRS	Environmental Confirmations	Confirmation		other

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

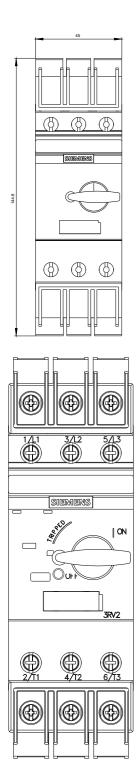
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

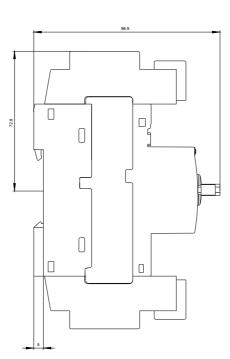
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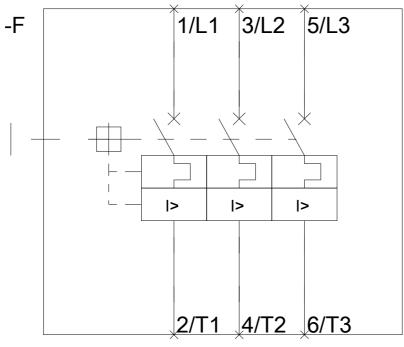
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV27110CD10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV27110CD10/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV27110CD10&lang=en







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