SIEMENS

Data sheet

3RV2811-1BD10



Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 2 A N release 42 A screw terminal Standard switching capacity

product brand name				
product brand name	SIRIUS Circuit baseker			
product designation	Circuit breaker			
design of the product	For transformer protection according to UL 489/CSA C22.2 No.5			
product type designation	3RV2			
General technical data				
size of the circuit-breaker	S00			
product extension auxiliary switch	Yes			
power loss [W] for rated value of the current				
 at AC in hot operating state 	7.25 W			
 at AC in hot operating state per pole 	2.4 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			
reference code acc. to IEC 81346-2	Q			
Substance Prohibitance (Date)	01.10.2009 00:00:00			
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			
temperature compensation	-20 +60 °C			
relative humidity during operation	10 95 %			
Main circuit				
number of poles for main current circuit	3			
operating voltage				
rated value	690 V			
 at AC-3 rated value maximum 	690 V			
operating frequency rated value	50 60 Hz			
operational current rated value	2 A			
operational current at AC-3 at 400 V rated value	2 A			

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operating power at AC-3	
• at 230 V rated value	0.37 kW
 at 400 V rated value 	0.75 kW
• at 500 V rated value	0.75 kW
• at 690 V rated value	1.1 kW
operating frequency at AC-3 maximum	15 1/h
Auxiliary 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
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	No
design of the overload release	thermal
breaking capacity operating short-circuit current (lcs)	
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	10 kA
breaking capacity maximum short-circuit current (Icu)	
 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 	10 kA
 at 480 AC Y/277 V acc. to UL 489 rated value 	65 kA
response value current of instantaneous short-circuit trip unit	42 A
Short-circuit protection	
product function short circuit protection	Yes
product function short circuit protection design of the short-circuit trip	Yes
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit	Yes magnetic
design of the short-circuit trip design of the fuse link for IT network for short-circuit	
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit	magnetic gL/gG 25 A
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit ● at 400 V	magnetic
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V	magnetic gL/gG 25 A gL/gG 25 A
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V	magnetic gL/gG 25 A gL/gG 25 A
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A any screw and snap-on mounting onto 35 mm standard mounting rail
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 144 mm
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 144 mm 45 mm
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 144 mm
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 144 mm 45 mm
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 144 mm 45 mm 97 mm
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — upwards	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — at the side • for live parts at 400 V	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm 30 mm
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V	magnetic gL/gG 25 A gL/gG 25 A gL/gG 20 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 144 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm
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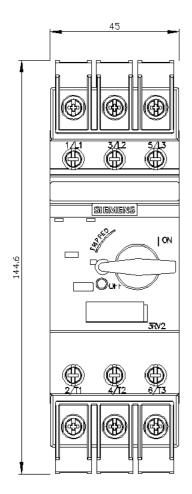
— at the side	30 mn	L			
 for grounded parts at 690 V 					
— downwards	70 mn	L			
— upwards	70 mn	L			
— backwards	0 mm				
— at the side	30 mn	L			
— forwards	0 mm				
 for live parts at 690 V 					
— downwards	70 mn	L			
— upwards	70 mn	70 mm			
– backwards	0 mm	0 mm			
— at the side	30 mn	30 mm			
— forwards	0 mm				
Connections/ Terminals					
product component removable terminal for	auxiliary No				
and control circuit					
type of electrical connection					
for main current circuit	screw	screw-type terminals			
arrangement of electrical connectors for ma	in current Top a	Top and bottom			
circuit					
type of connectable conductor cross-section	ns				
 for main contacts 					
— solid or stranded	1 10	mm², max. 2x 10 mr	n²		
 finely stranded with core end proces 	sing 1 10	1 16 mm², max. 6 + 16 mm²			
 at AWG cables for main contacts 	2x (14	2x (14 10)			
tightening torque					
 for main contacts with screw-type termin 	als 2.5	3 N∙m			
design of screwdriver shaft	Diame	Diameter 5 to 6 mm			
size of the screwdriver tip	Pozidi	v 2			
design of the thread of the connection scre	N				
 for main contacts 	M4				
Safety related data					
B10 value					
• with high demand rate acc. to SN 31920	5 000				
proportion of dangerous failures					
• with low demand rate acc. to SN 31920	50 %				
• with high demand rate acc. to SN 31920	50 %				
failure rate [FIT]					
• with low demand rate acc. to SN 31920	50 FIT				
T1 value for proof test interval or service life					
IEC 61508	- acc. to 10 y				
protection class IP on the front acc. to IEC	0529 IP20				
touch protection on the front acc. to IEC 60		safe, for vertical conta	act from the front		
display version for switching status	Handl				
Certificates/ approvals					
			Declaration of Com	formal for	
General Product Approval			Declaration of Con	iormity	
		FAL	()		
		ΓΠΙ			
CSA UL			EG-Konf.		
Test Certificates	Marine / Shipping			other	
	and a company				

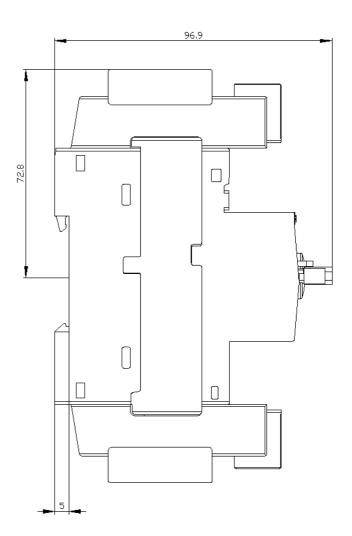
BUREAU VERITAS LRS

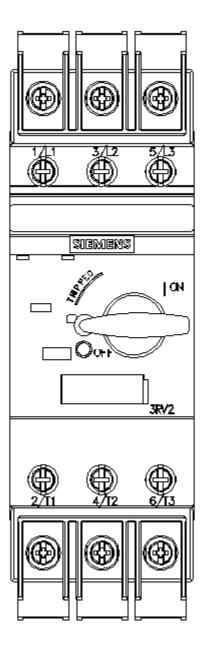
other

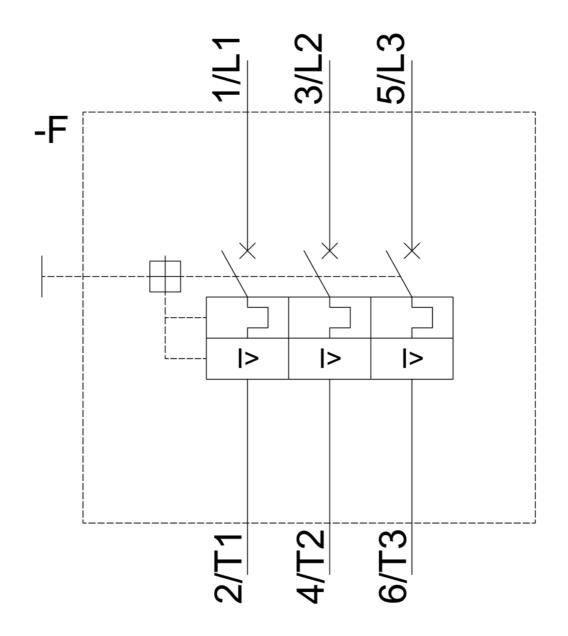
Railway











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2/5/2021 🖸