SIEMENS

Data sheet

3RV2411-1BA10



CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROT. A-RELEASE 1.4...2A, N-RELEASE 42A, SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name		SIRIUS
Product designation		3RV2 circuit breaker
General technical data:		
Active power loss total typical	W	6
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
Adjustable response value current of the current-	Δ	14 2

Number of poles for main current circuit		3
Adjustable response value current of the current-	А	1.4 2
dependent overload release		
Operating voltage		

	N/	600
Rated value	V	690
• at AC-3 Rated value maximum	V	690
Operating frequency Rated value	Hz	50 60
Operating current Rated value	A	2
Operating current		
• at AC-3		
— at 400 V Rated value	A	2
Operating power		
• at AC-3		
— at 230 V Rated value	W	370
— at 400 V Rated value	W	750
— at 500 V Rated value	W	750
— at 690 V Rated value	W	1 100
Operating frequency		
● at AC-3 maximum	1/h	15
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
Product expansion Auxiliary switch		Yes
Protective and monitoring functions:		
Trip class		CLASS 10
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	10
Maximum short-circuit current breaking capacity (Icu)		
with AC at 240 V Rated value	kA	100
 with AC at 400 V Rated value 	kA	100
 with AC at 500 V Rated value 	kA	100
• with AC at 690 V Rated value	kA	10
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		

	۲A	10
 with 3 current paths in series for DC at 450 V Rated value 	kA	10
Response value current of the instantaneous short- circuit release	A	42
JL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	А	2
• at 600 V Rated value	А	2
yielded mechanical performance [hp]	-	
 for single-phase AC motor at 230 V Rated value 	metric hp	0.125
 for three-phase AC motor at 460/480 V Rated value 	metric hp	0.75
• for three-phase AC motor at 575/600 V Rated value	metric hp	1
Short-circuit:		
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 400 V		gL/gG 25 A
• at 500 V		gL/gG 25 A
● at 690 V		gL/gG 20 A
nstallation/ 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	97
Width	mm	45
Depth	mm	96
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		2x (0,75 2,5 mm²), 2x 4 mm²
— finely stranded with core end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for main contacts 		2x (18 14), 2x 12
Tightening torque		
 for main contacts with screw-type terminals 	N∙m	0.8 1.2
Design of screwdriver shaft		Diameter 5 to 6 mm
Design of the thread of the connection screw		
• for main contacts		M3

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	m	2 000
maximum		

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• during storage	°C	-50 +80
• during transport	°C	-50 +80
Relative humidity during operation	%	10 95
Display:		

Display version

• for switching status

Handle

ertificates/ approva General Product		_	Declaration of Conformity	Test Certificate	
	CSA	EAC	EG-Konf.	Special Test Certificate	Declaration of the Compliance with the order
Test Certificates	Shipping Ap	proval			
<u>Type Test</u> Certificates/Test <u>Report</u>	ABS	B U R E A U VERITAS	DNV DNV	GL	Lloyd's Register LRS

Shipping Ap	oroval		other		
PRS	RINA	RMRS	Environmental Confirmations	Confirmation	

other	
other	

Further information	
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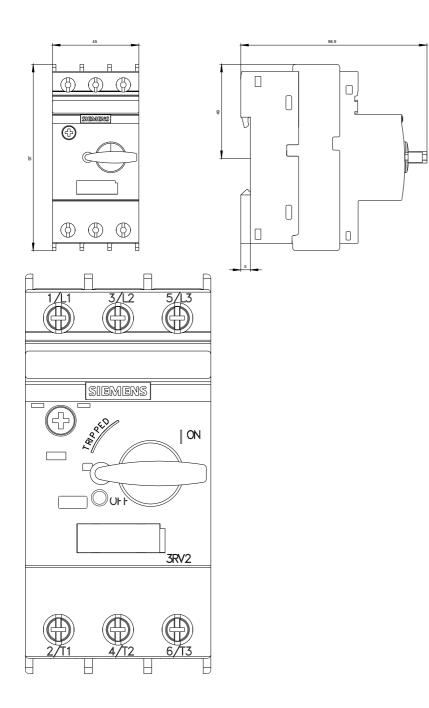
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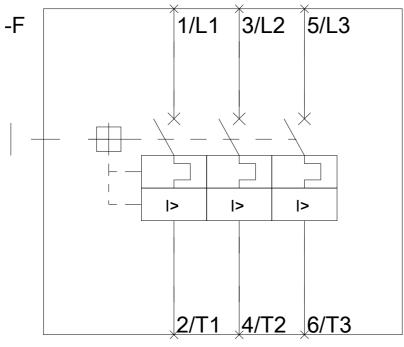
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Cax online generator

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