SIEMENS

Data sheet 3RV2023-4AA20



CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 11...16A, N-RELEASE 208A, SPRING-L. CONNECTION, STANDARD SW. CAPACITY,

Figure similar

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

General technical data:		
Active power loss total typical	W	7
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
Size of contactor can be combined company-specific		S0
Protection class IP		
• on the front		IP20
• of the terminal		IP20
Type of protection		Increased safety
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-	Α	11 16
dependent overload release		
Operating voltage		
Rated value	V	690
 at AC-3 Rated value maximum 	V	690
Operating frequency Rated value	Hz	50 60
Operating current Rated value	Α	16
Operating current		
• at AC-3		
— at 400 V Rated value	Α	16
Operating power		
• at AC-3		
— at 230 V Rated value	W	4 000
— at 400 V Rated value	W	7 500
— at 500 V Rated value	W	7 500
— at 690 V Rated value	W	11 000
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	25
● at 500 V Rated value	kA	5
● at 690 V Rated value	kA	2
Maximum short-circuit current breaking capacity (Icu)		
• with AC at 240 V Rated value	kA	100
• with AC at 400 V Rated value	kA	55
• with AC at 500 V Rated value	kA	10
• with AC at 690 V Rated value	kA	4
● at 480 AC Y/277 V acc. to UL 489 Rated value	Α	30
Breaking capacity short-circuit current (Icn)		

with 2 current paths in series for DC at 300 V Rated value with 3 current paths in series for DC at 450 V Rated value with 3 current paths in series for DC at 450 V Rated value Response value current of the instantaneous short-circuit release.	 with 1 current path for DC at 150 V Rated value 	kA	10
with 3 current paths in series for DC at 450 V Rated value Response value current of the Instantaneous short-circuit release UI/CSA ratings	·	kA	10
Response value current of the instantaneous short- circuit release DL/CSA ratings: Full-oad current (FLA) for three-phase AC motor at 480 V Rated value	• with 3 current paths in series for DC at 450 V	kA	10
Full-load current (FLA) for three-phase AC motor • at 480 V Rated value • at 600 V Rated value • of ro single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 675/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 575/600 V Rated metric hp • for three-phase AC motor at 220/230 V Rated metric hp • for three-phase AC motor at 220/230 V Rated metric hp • for three-phase AC motor at 220/230 V Rated metric hp • for three-phase AC motor at 220/230 V Rated metric hp • for three-phase AC motor at 220/230 V Rated metric hp • for three-phase AC motor at 220/230 V Rated metric hp • for three-phase AC motor at 220/230 V Rated metric hp • for three-phase AC motor at 220/230 V Rated metric hp • for three-	Response value current of the instantaneous short-	A	208
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— 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	spring-loaded 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 (1 10 mm²)
— finely stranded with core end processing	2x (1 6 mm²)
 finely stranded without core end processing 	2x (1 6 mm²)
 for AWG conductors for main contacts 	2x (18 8)
Design of screwdriver shaft	Diameter 5 to 6 mm

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		S0
A 11 / PO		
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
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

Handle • for switching status

Certificates/ approvals:

General Product Approval Declaration of Test Certificates Conformity









Special Test Certificate

Type Test Certificates/Test Report

Shipping Approval









GL





Shipping other **Approval**



Confirmation

Environmental Confirmations



other

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

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

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV20234AA20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV20234AA20/all





