SIEMENS

Data sheet

3RV2023-1KA20



Circuit breaker size S0 for motor protection, CLASS 10 A-release 9...12 A N-release 163 A Spring-type terminal switching capacity 30 kA at 600 V according to UL/CSA

SIRIUS
Circuit breaker
For motor protection
3RV2
S0
S00, S0
Yes
9.25 W
3.1 W
690 V
6 kV
25g / 11 ms
100 000
100 000
100 000
Q
10/01/2009
2 000 m
2 000 m
2 000 m -20 +60 °C
-20 +60 °C
-20 +60 °C -50 +80 °C
-20 +60 °C -50 +80 °C -50 +80 °C
-20 +60 °C -50 +80 °C -50 +80 °C
-20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3
-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3
-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 9 12.5 A
-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 9 12.5 A 20 690 V
-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 9 12.5 A 20 690 V 690 V
-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 9 12.5 A 20 690 V 690 V 690 V
-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 9 12.5 A 20 690 V 690 V 690 V 50 60 Hz
-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 9 12.5 A 20 690 V 690 V 690 V 50 60 Hz

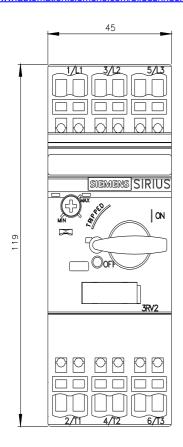
operating power	
• at AC-3	
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 690 V rated value	7.5 kW
operating frequency	
• at AC-3 maximum	15 1/h
● at AC-3e maximum	15 1/h
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	C IA
• at AC at 690 V rated value	6 kA
operating short-circuit current breaking capacity (Ics) at AC	414
at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	163 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	12.5 A
• at 600 V rated value	12.5 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	8 hp
— at 575/600 V rated value	10 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	indgridio
	2014
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	119 mm
width	45 mm
depth	97 mm
required spacing	
 with side-by-side mounting at the side 	0 mm
 for grounded parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	

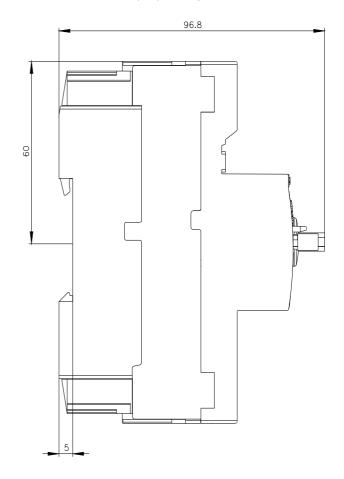
type of electrical connection				
51				
for main current circuit		spring-loaded terminals		
arrangement of electrical connectors for mai circuit	in current	Top and bottom		
type of connectable conductor cross-section	ıs			
 for main contacts 				
— solid or stranded		2x (1 10 mm²)		
 finely stranded with core end proces 	ssing	2x (1 6 mm²)		
— finely stranded without core end pro	-	2x (1 6 mm²)		
for AWG cables for main contacts	g	2x (18 8)		
design of screwdriver shaft		Diameter 3 mm		
size of the screwdriver tip		3,0 x 0,5 mm		
·		5,0 X 0,5 mm		_
afety related data				_
B10 value				
 with high demand rate according to SN 3² 	1920	5 000		
proportion of dangerous failures				
 with low demand rate according to SN 31 	920	50 %		
 with high demand rate according to SN 3² 	1920	50 %		
failure rate [FIT]				
 with low demand rate according to SN 31 	920	50 FIT		
T1 value for proof test interval or service life acc 61508		10 a		
protection class IP on the front according to	IEC 60529	IP20		
touch protection on the front according to IE		finger-safe, for vertical conta	act from the front	
display version for switching status		Handle		
ertificates/ approvals		Tandie		
			Declaration of Conform	
	(h)	EAC	EG-Konf.	UK CA
CCC		EHC	EG-Konf.	ĊÀ
Test Certificates	UL Marine / Shipp	FAC	EG-Konf.	ĊÀ
CCC	Marine / Shipp	ping BUREAU VERITAS	EG-Konf.	Lloyds Register Us
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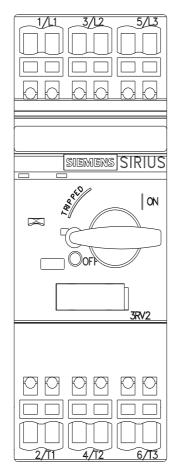
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2023-1KA20/char

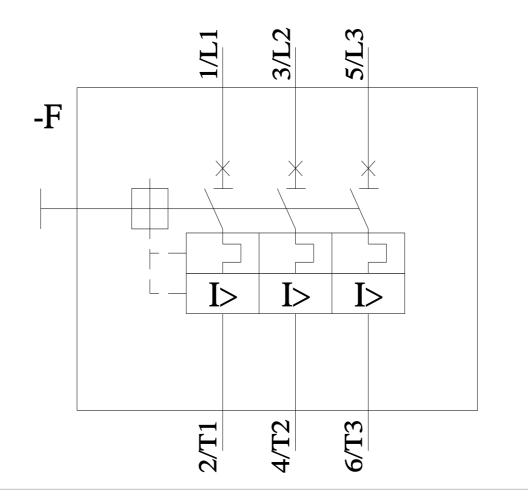
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2023-1KA20&objecttype=14&gridview=view1







8/19/2023



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