SIEMENS

Data sheet

3RV2023-4CA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 17...22 A N-release 286 A screw terminal Switching capacity 30 kA at 600 V according to UL/CSA

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	SO
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	10.5 W
 at AC in hot operating state per pole 	3.5 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (operating cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
electrical endurance (operating cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Blei - 7439-92-1
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
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	16 22 A
operating voltage	
 rated value 	20 690 V
• at AC-3 rated value maximum	690 V
 at AC-3e rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	22 A
operational current	
• at AC-3 at 400 V rated value	22 A

• at AC-3e at 400 V rated value	22 A
	22 A
operating power • at AC-3	
	10 E MM
— at 690 V rated value	18.5 kW
• at AC-3e	10 E MM
— at 690 V rated value	18.5 kW
operating frequency	15.1/b
at AC-3 maximum	15 1/h 15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	0
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	No
ground fault detection	No
phase failure detection	Yes CLASS 10
trip class	
design of the overload release maximum short-circuit current breaking capacity (Icu)	thermal
	4 kA
at AC at 690 V rated value	
 operating short-circuit current breaking capacity (Ics) at AC at 690 V rated value 	2 kA
response value current of instantaneous short-circuit trip unit	2 KA 286 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	22 A
at 480 V rated value at 600 V rated value	22 A 22 A
• at 600 v rated value yielded mechanical performance [hp]	
for single-phase AC motor	
- at 110/120 V rated value	1.5 hp
— at 110/120 V rated value — at 230 V rated value	1.5 np 3 hp
for 3-phase AC motor	
- at 200/208 V rated value	7.5 hp
- at 220/200 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
— at 575/600 V rated value	20 hp
Short-circuit protection	
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	gG 63 A
• at 500 V	gG 50 A
• at 690 V	gG 50 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	97 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
— at the side	30 mm
• for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— at the side	30 mm

Connections/ Terminals					
the state of the s					
type of electrical conn					
	circuit ical connectors for main	current	screw-type terminals Top and bottom		
circuit					
•••	onductor cross-sections				
 for main contacts 			0 (4 0.5	0	
— solid or stra			2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		
-	ded with core end processi	ng		5 mm²), 1x 10 mm²	
for AWG cables f	or main contacts		2x (16 12), 2x (14 8)		
tightening torque	with screw-type terminals		2 2.5 N·m		
design of screwdriver			Diameter 5 to 6 mm		
size of the screwdrive			Pozidriv size 2		
design of the thread of the connection screw					
 for main contacts 			M4		
Safety related data					
B10 value					
	d rate according to SN 319	20	5 000		
proportion of dangero					
	rate according to SN 3192	20	50 %		
	d rate according to SN 319		50 %		
failure rate [FIT]					
	rate according to SN 3192	20	50 FIT		
	nterval or service life accor		10 a		
protection class IP on	the front according to IE	C 60529	IP20		
-	e front according to IEC		finger-safe, for vertical contac	t from the front	
display version for switching status		Handle			
Certificates/ approvals					
General Product App	roval			Declaration of Con- formity	Test Certificates
				lonnity	
Confirmation		ŝ	rnr	~ ~	Type Test Certific-
	(\mathbf{m})	(VL)	FHI		ates/Test Report
	CCC	UL	LIIL	EG-Konf.	
Test Certificates	Marine / Shipping				
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	Marine / Shipping		ĴÅ	Lloyds Register	6)
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Special Test Certific- ate	other Confirmation	/siemens-wind-dov ent EAC certificat atus of validity of t	Railway Confirmation wn-russian-business es. he EAC certification if you inter	Vibration and Shock	PRS PRS
Special Test Certific- ate Marine / Shipping	to exit the Russian mark om/global/en/pressrelease n the renewal of the curra al Siemens office on the st ther than the sanctioned E ckaging siemens.com/cs/ww/en/vie	/siemens-wind-dow ent EAC certificat atus of validity of t AEU member state ew/109813875	Railway Confirmation wn-russian-business es. he EAC certification if you inter	Vibration and Shock	PRS PRS
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Special Test Certific- ate Marine / Shipping	other Confirmation Confirmation to exit the Russian mark om/global/en/pressrelease in the renewal of the curro al Siemens office on the st ther than the sanctioned E ckaging siemens.com/cs/ww/en/vie nloadcenter (Catalogs, B m/ic10	/siemens-wind-dow ent EAC certificat atus of validity of t AEU member state ew/109813875	Railway Confirmation wn-russian-business es. he EAC certification if you inter	Vibration and Shock	PRS PRS

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2023-4CA10 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2023-4CA10

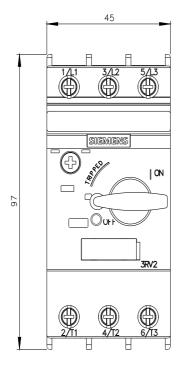
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2023-4CA10

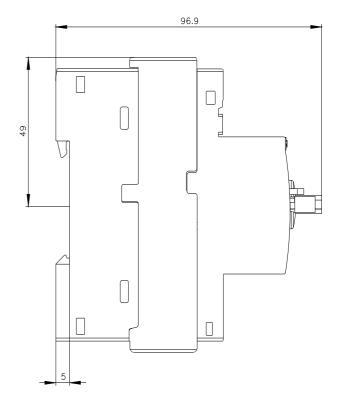
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2023-4CA10&lang=en

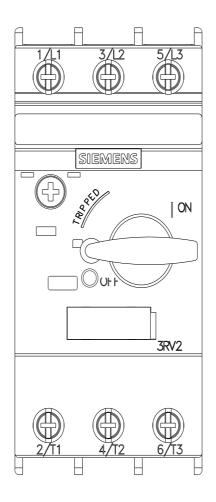
Characteristic: Tripping characteristics, I2t, Let-through current

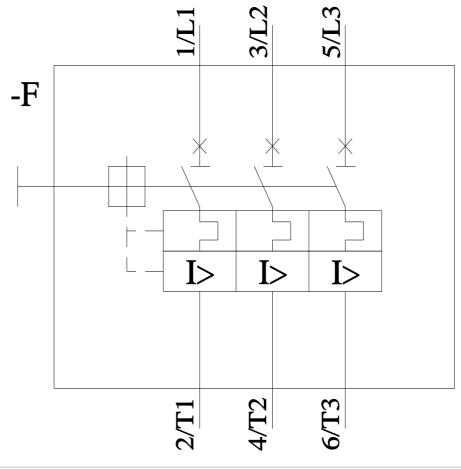
https://support.indu emens.com/cs/ww/en/ps/3RV20 CA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2023-4CA10&objecttype=14&gridview=view1









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