SIEMENS

Data sheet

3RV2021-4CA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 16...22 A N-release 286 A screw terminal Standard switching capacity

product brand name SIRIUS product designation Circuit breaker design of the product For motor protection product type designation 3RV2 General technical data					
design of the product For motor protection product type designation 3RV2 General technical data S0 size of the circuit-breaker S0 size of the circuit-breaker S0 product extension auxiliary switch Yes power loss (W for rated value of the current • at AC in hot operating state erropel 3.5 W • at AC in hot operating state per pole 3.5 W • surge voltage with degree of pollution 3 at AC rated value 6 kV shock resistance according to IEC 60068-2-27 Zsg / 11 ms mechanical service life (operating cycles) • of the main contacts typical • of duxiliary contacts typical 100 000 • of auxiliary contacts typical 100 000 • of auxiliary contacts typical 100 000 • of the main contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 • of the main contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 substance Prohibitance (Date) 10/01/2009 SWH substance name Lead - 7439-92/1	product brand name	SIRIUS			
product type designation 3RV2 General technical data	product designation	Circuit breaker			
General technical data S0 size of the circuit-breaker S0 size of contactor can be combined company-specific S00, S0 product extension auxilary switch Yes power loss [W] for rated value of the current 0.5 W • at AC in hot operating state 0.5 W insulation voltage with degree of pollution 3 at AC rated value 690 V surger voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 Z5g /11 ms mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical 100 000 • electrical endurance (operating cycles) typical 100 000 • electrical endurance (operating cycles) typical 100 000 • of auxiliary contacts typical 100 000 reference code according to IEC 81346-2 Q SWHC substance name Lead - 7439-92-1 Ambient conditions 2000 m ambient temperature	design of the product	For motor protection			
size of the circuit-breaker \$0 size of contactor can be combined company-specific \$00, \$0 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 10.5 W 3.5 W Insulation voltage with degree of pollution 3 at AC rated value 6 8 kV surge voltage resistance rated value 6 8 kV shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service II/6 (operating cycles) • of the main contacts typical • of the main contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 100 1000 SUBtastace Prohibitance (Date) 100/1/2009 SUH could be availiary contacts typical 100 100/1/2009 SUH could be availiary advectory of C -0 ambient conditions -20 +60 °C • during operation 10 95 % Malact creatify during operation 10 95 % Malain circuit 3 numb	product type designation	3RV2			
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SVHC substance name Lead - 7439-92-1 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 16 22 A operating voltage 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V	reference code according to IEC 81346-2	Q			
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	ambient temperature				
• during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 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	during operation	-20 +60 °C			
relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 16 22 A operating voltage 20 690 V • rated value 690 V • at AC-3 rated value maximum 690 V	during storage	-50 +80 °C			
Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 16 22 A operating voltage 20 690 V • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V	during transport	-50 +80 °C			
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adjustable current response value current of the current- dependent overload release 16 22 A operating voltage 20 690 V • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V	Main circuit				
dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum • 690 V • at AC-3e rated value maximum	number of poles for main current circuit	3			
• rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V	•	16 22 A			
at AC-3 rated value maximum 690 V at AC-3e rated value maximum 690 V	operating voltage				
• at AC-3e rated value maximum 690 V	rated value	20 690 V			
	 at AC-3 rated value maximum 	690 V			
operating frequency rated value 50 60 Hz	 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
operating power	
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	18.5 kW
● at AC-3e	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	18.5 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)	
 at AC at 240 V rated value 	100 kA
• at AC at 400 V rated value	55 kA
• at AC at 500 V rated value	10 kA
• at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 kA
• at 400 V rated value	25 kA
• at 500 V rated value	5 kA
• at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	286 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	22 A
• at 600 V rated value	22 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	1.5 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	
— at 200/208 V rated value	7.5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 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	gL/gG 63 A
• at 500 V	gL/gG 50 A
• at 690 V	gL/gG 50 A
Installation/ mounting/ dimensions	
mounting position	any
<u>v</u> :	

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 400 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	3 1111
- downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for live parts at 500 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 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	
 for main current circuit 	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections	
 for main contacts 	
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
 for AWG cables for main contacts 	2x (16 12), 2x (14 8)
tightening torque	
 for main contacts with screw-type terminals 	2 2.5 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
for main contacts	M4
afety related data	
product function suitable for safety function	Yes
suitability for use	
safety-related switching on	No
safety-related switching OFF	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
	40 %
 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 	40 % 50 % 5 000

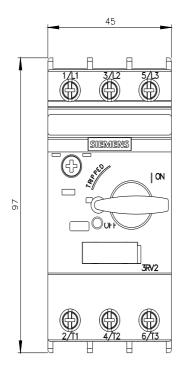
failuro rato [EIT] with k	w domand rato accord	ting to SN	50 FI1	г		
failure rate [FIT] with low demand rate according to SN 31920			50 FIT			
ISO 13849						
device type according to ISO 13849-1			3			
overdimensioning according to ISO 13849-2 necessary			Yes			
IEC 61508						
safety device type according to IEC 61508-2			Туре А			
T1 value						
61508	val or service life accord	ling to IEC	10 a			
Electrical Safety						
protection class IP on			IP20			
touch protection on the	e front according to IE	C 60529	finger	-safe, for vertical contact	from the front	
Display			_			
display version for switcl	ning status		Handl	e		
Approvals Certificates						
General Product Appr	oval					
CE	UK	())		Confirmation	(l)	KC
EG-Konf. General Product Ap-	CH	ccc		Test Cartificates	u	Marine (Chinging
proval	For use in hazardous	slocations		Test Certificates		Marine / Shipping
EAC	K ATEX			Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS
Marine / Shipping						other
BUREAU VERITAS		Llovd's Register uis		PPS	RINA	<u>Miscellaneous</u>
other		Railway			Environment	
<u>Confirmation</u>		<u>Special Test Ce</u> <u>ate</u>	<u>rtific-</u>	<u>Confirmation</u>	EPD	Siemens EcoTech
Environment						
Environmental Con- firmations						
Further information						
Information on the pac https://support.industry.s Information- and Down https://www.siemens.com	<u>siemens.com/cs/ww/en/\</u> lloadcenter (Catalogs,					

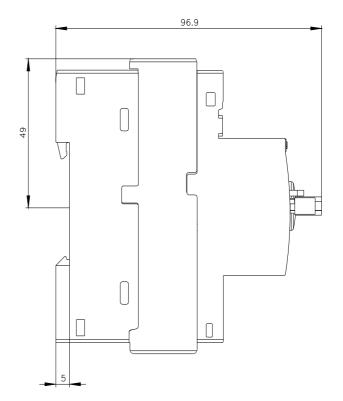
https://www.siemens.com/ic10

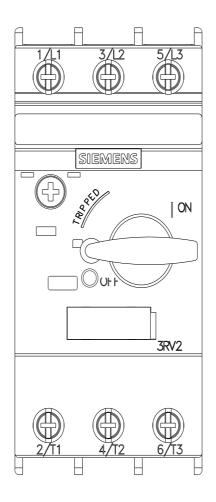
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2021-4CA10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4CA10

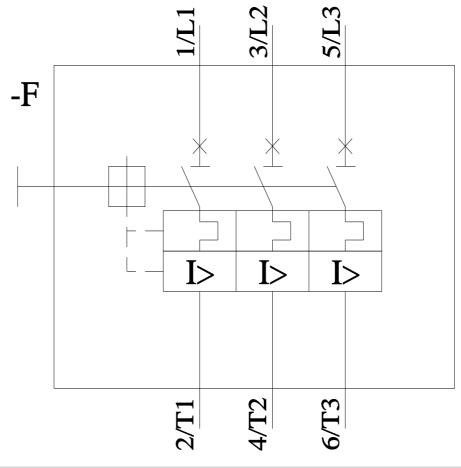
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4CA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4CA10&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4CA10/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4CA10&objecttype=14&gridview=view1









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