SIEMENS

Data sheet

3RV2031-4EA10-0BA0



Special type Circuit breaker size S2 for motor protection, CLASS 10 A-release 22...32 A N-release 416 A screw terminal Standard switching capacity Ambient temperature -50 $^\circ$ C 250 switching cycles

Fi			

needuct brand name	SIRIUS		
product brand name			
product designation	Circuit breaker		
design of the product	For motor protection		
product type designation	3RV2		
General technical data			
size of the circuit-breaker	S2		
size of contactor can be combined company-specific	S2		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current			
 at AC in hot operating state 	18 W		
at AC in hot operating state per pole	6 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 Sinus		
mechanical service life (operating cycles)			
 of the main contacts typical 	250		
 of auxiliary contacts typical 	250		
electrical endurance (operating cycles) typical	250		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/15/2014		
SVHC substance name	Blei - 7439-92-1		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
 during operation 	-50 +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	22 32 A		
operating voltage			
 rated value 	20 690 V		
 at AC-3 rated value maximum 	690 V		
operating frequency rated value	50 60 Hz		
operational current rated value	32 A		
operational current			
• at AC-3 at 400 V rated value	32 A		

operating power			
• at AC-3			
— at 230 V rated value	7.5 kW		
— at 400 V rated value	15 kW		
— at 500 V rated value	18.5 kW		
— at 690 V rated value	30 kW		
operating frequency			
• at AC-3 maximum	15 1/h		
Auxiliary circuit			
number of NC contacts for auxiliary contacts	0		
number of NO 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 (lcu)			
• at AC at 240 V rated value	50 kA		
• at AC at 400 V rated value	50 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	25 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	416 A		
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 240 V	none required		
• at 400 V	gG 125 A		
• at 500 V	gG 100 A		
• at 690 V	gG 80 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	140 mm		
width	55 mm		
depth	149 mm		
required spacing			
• with side-by-side mounting at the side	0 mm		
 for grounded parts at 400 V 			
— downwards	50 mm		
— upwards	50 mm		
— at the side	50 mm 10 mm		
— at the sidefor live parts at 400 V	10 mm		
 at the side for live parts at 400 V downwards 	10 mm 50 mm		
 at the side for live parts at 400 V downwards upwards 	10 mm 50 mm 50 mm		
 at the side for live parts at 400 V downwards upwards at the side 	10 mm 50 mm		
 at the side for live parts at 400 V downwards upwards at the side for grounded parts at 500 V 	10 mm 50 mm 50 mm 10 mm		
 at the side for live parts at 400 V downwards upwards at the side for grounded parts at 500 V downwards 	10 mm 50 mm 50 mm 10 mm 50 mm		
 at the side for live parts at 400 V downwards upwards at the side for grounded parts at 500 V downwards upwards upwards 	10 mm 50 mm 50 mm 10 mm 50 mm		
 at the side for live parts at 400 V downwards upwards at the side for grounded parts at 500 V downwards upwards at the side 	10 mm 50 mm 50 mm 10 mm 50 mm		
 at the side for live parts at 400 V downwards upwards at the side for grounded parts at 500 V downwards upwards at the side for live parts at 500 V 	10 mm 50 mm 50 mm 10 mm 50 mm 10 mm		
 at the side for live parts at 400 V downwards upwards at the side for grounded parts at 500 V downwards upwards at the side for live parts at 500 V downwards at the side 	10 mm 50 mm 50 mm 10 mm 50 mm 50 mm 10 mm		
 at the side for live parts at 400 V downwards upwards at the side for grounded parts at 500 V downwards upwards at the side for live parts at 500 V 	10 mm 50 mm 50 mm 10 mm 50 mm 10 mm		

 for grounded par 	ts at 690 V						
— downwards		50 mm					
— upwards		50 mm					
— at the side			10 mm				
 for live parts at 6 	90 V						
— downwards	— downwards			n			
- upwards			50 mr	n			
— at the side			10 mr	n			
Connections/ Terminals	5						
type of electrical conr							
for main current circuit			screw	-type terminals			
arrangement of electrical connectors for main current circuit			Top and bottom				
	onductor cross-sections						
for main contacts							
- solid or stra			0(405.mm2) 4(405				
				25 mm²), 1x (1 35 mn			
	ded with core end processing]	2X (1	16 mm²), 1x (1 25 mn	n~)		
tightening torque			0	C M			
	s with screw-type terminals			.5 N·m			
design of screwdriver				eter 5 to 6 mm			
size of the screwdrive	•		Pozid	riv size 2			
design of the thread o	of the connection screw						
 for main contacts 	S		M6				
Safety related data							
proportion of dangero	ous failures						
 with low demand 	rate according to SN 31920		50 %				
	d rate according to SN 31920		50 %				
failure rate [FIT]	<u> </u>						
	rate according to SN 31920		50 FIT				
	nterval or service life accordi						
61508	The value service life according	IIG TO IEC	10 a				
protection class IP on	the front according to IEC	60529	IP20				
-			finger-safe, for vertical contact from the front				
-	touch protection on the front according to IEC 60529 display version for switching status			Handle			
Certificates/ approvals	sining otatao						
General Product App	roval			Declaration of Conform	aity	Test Certificates	
General i Toduct App	loval			Deciaration of Contorn	iity	rest vertificates	
<u>Confirmation</u>	KC	EHC	I	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	
Test Certificates	Marine / Shipping						
Special Test Certific- ate	ABS	BUREAU VERITAS	l		Llovd's Register urs	PRS	
Marine / Shipping	other			Railway			
RINA	<u>Confirmation</u>			Vibration and Shock	<u>Confirmation</u>		
	to exit the Russian market						

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

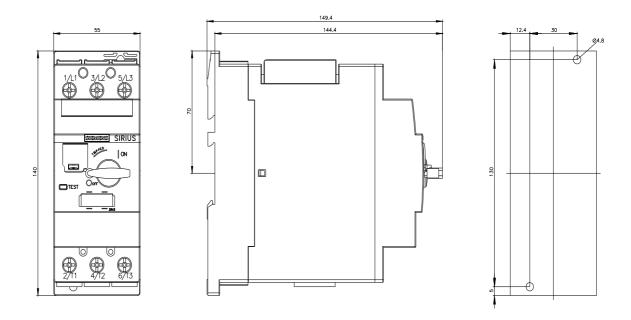
Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

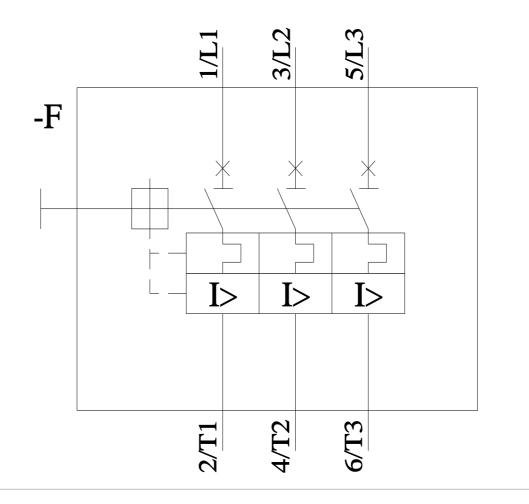
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2031-4EA10-0BA0 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4EA10-0BA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4EA10-0BA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4EA10-0BA0&lang=en Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4EA10-0BA0/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4EA10-0BA0&objecttype=14&gridview=view1





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