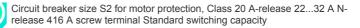
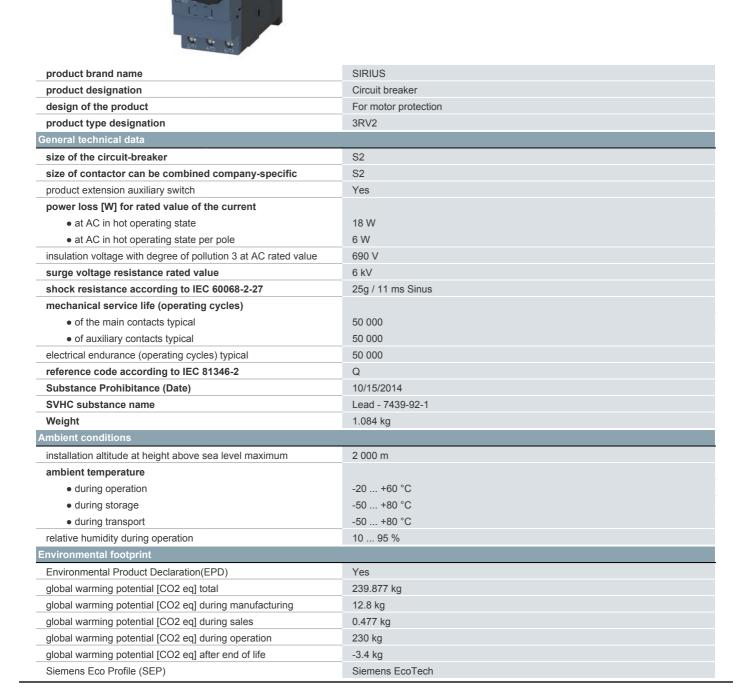
SIEMENS

Data sheet

3RV2031-4EB10







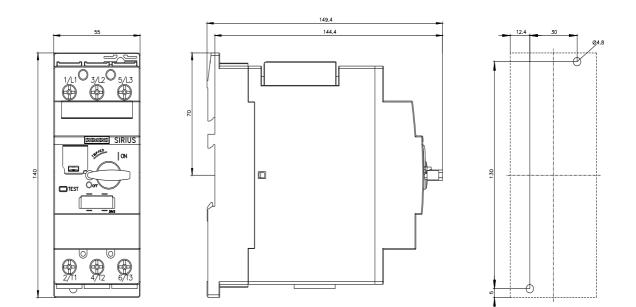
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	22 32 A
type of voltage for main current circuit	AC
operating voltage	
rated value	20 690 V
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	32 A
operational current	
at AC-3 at 400 V rated value	32 A
• at AC-3e 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
• at AC-3e	
- at 230 V rated value	7.5 kW
— at 200 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
• at AC-3e maximum	15 1/h
Auxiliary circuit	
type of voltage for auxiliary and control circuit	AC/DC
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 20
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	65 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	30 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
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	32 A
at 400 V rated value at 600 V rated value	32 A 32 A
yielded mechanical performance [hp]	
for single-phase AC motor	
- at 110/120 V rated value	3 hp
— at 110/120 V fated value	•
	5 hp
 for 3-phase AC motor 	
at 200/209 V rated value	10 hr
— at 200/208 V rated value — at 220/230 V rated value	10 hp 10 hp

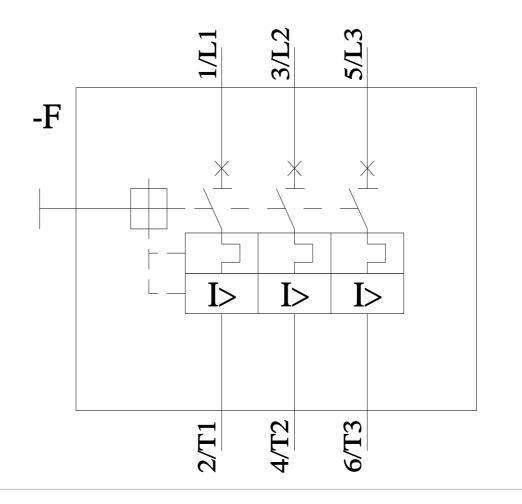
— at 460/480 V rated value	25 hp
— at 575/600 V rated value	30 hp
Short-circuit protection	50 mp
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 240 V	none required
• at 400 V	125
• at 500 V	100
• at 690 V	80
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	10 mm
for live parts at 400 V	50 mm
— downwards	50 mm
— upwards — at the side	50 mm 10 mm
 at the side for grounded parts at 500 V 	10 11111
- downwards	50 mm
— upwards	50 mm
— at the side	10 mm
• for live parts at 500 V	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
 for grounded parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
 for live parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— at the side	10 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 25 mm ²), 1x (1 35 mm ²)
 finely stranded with core end processing 	2x (1 16 mm²), 1x (1 25 mm²)
for AWG cables for main contacts	2x (18 3), 1x (18 2)
tightening torque	0.451
for main contacts with screw-type terminals	3 4.5 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	M6
for main contacts Safety related data	M6
	Vac
product function suitable for safety function	Yes

suitability for use						
 safety-related sw 	-	N				
 safety-related sw 	itching OFF	Ye				
service life maximum		10	10 a			
test wear-related serv	ice life necessary	Ye	es			
proportion of dangero						
	rate according to SN 31		0 %			
 with high demand rate according to SN 31920 			0 %			
B10 value with high demand rate according to SN 31920			000			
failure rate [FIT] with I 31920	ow demand rate accord	ding to SN 50) FIT			
ISO 13849						
device type according to ISO 13849-1		3				
overdimensioning according to ISO 13849-2 necessary		necessary Ye	Yes			
IEC 61508						
safety device type acc	ording to IEC 61508-2	Ту	уре А			
T1 value						
 for proof test inte 61508 	rval or service life accord	ling to IEC 10) a			
Electrical Safety						
protection class IP on	the front according to	IEC 60529 IP	220			
-	e front according to IE		nger-safe, for vertical contact	from the front		
Display	-					
display version for swite	ching status	Ha	andle			
Approvals Certificates	-					
General Product App	roval					
ccc	EG-Konf.	UK CA	UL			
General Product Ap- proval	Test Certificates		Marine / Shipping			
<u>BIS CRS</u>	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific</u> <u>ate</u>	2 ABS	BUREAU VERITAS		
Marine / Shipping			other			
Lloyd's Register us	PRS		<u>Miscellaneous</u>	<u>Confirmation</u>		
Railway		Environment				
Special Test Certific- ate	Confirmation		Siemens	Environmental Con- firmations		
		EPD	EcoTech			
Information- and Dow https://www.siemens.ccc Industry Mall (Online of https://mall.industry.sier Cax online generator	siemens.com/cs/ww/en/v nloadcenter (Catalogs, om/ic10 ordering system) mens.com/mall/en/en/Ca	Brochures,) talog/product?mlfb=3R	EcoTech			
Information on the part https://support.industry. Information- and Dow https://www.siemens.ccc Industry Mall (Online of https://mall.industry.sier Cax online generator	siemens.com/cs/ww/en/v nloadcenter (Catalogs, om/ic10 ordering system) mens.com/mall/en/en/Ca	Brochures,) talog/product?mlfb=3R	EcoTech	0		

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4EB10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4EB10&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4EB10/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4EB10&objecttype=14&gridview=view1





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5/16/2025 🖸