SIEMENS

Data sheet

3RV2031-4PA10







Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	28 36 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	36 A
operational current	
• at AC-3 at 400 V rated value	36 A
• at AC-3e at 400 V rated value	36 A
operating power	
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	30 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 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 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	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	520 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	36 A
at 600 V rated value	36 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	15 hp
- at 220/230 V rated value	15 hp

— at 460/480 V rated value	20 hp		
— at 460/480 V rated value — at 575/600 V rated value	30 hp 40 hp		
Short-circuit protection	40 hp		
	Vaa		
product function short circuit protection	Yes		
design of the short-circuit trip design of the fuse link for IT network for short-circuit	magnetic		
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			
— downwards	50 mm		
— upwards	50 mm		
— at the side	10 mm		
 for grounded parts at 500 V — downwards 	50 mm		
— upwards	50 mm		
— at the side	10 mm		
• for live parts at 500 V	10 1111		
— 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 mm ²), 1x (1 25 mm ²)		
for AWG cables for main contacts	2x (18 3), 1x (18 2)		
tightening torque	3 4.5 N·m		
for main contacts with screw-type terminals design of screwdriver shaft	3 4.5 N·m Diameter 5 to 6 mm		
size of the screwdriver tip	Pozidriv size 2		
design of the thread of the connection screw	I OLIGITY OLO L		
for main contacts	M6		
Safety related data			
product function suitable for safety function	Yes		
product anotion outdole for outcity function			

suitability for use						
 safety-related swi 	itchina on	No				
safety-related switching OFF		Yes				
service life maximum		10 a				
test wear-related service life necessary		Yes				
proportion of dangerous failures						
	rate according to SN 31	920 40 %				
	with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920					
failure rate [FIT] with low demand rate according to SN 31920 31920			5 000 50 FIT			
ISO 13849						
device type according to ISO 13849-1						
overdimensioning according to ISO 13649-1		necessary Yes				
IEC 61508		·····,				
safety device type acco	ording to IEC 61508-2	Туре	A			
T1 value	<u> </u>					
 for proof test interval or service life according to IEC 61508 		ling to IEC 10 a				
Electrical Safety						
	the front according to	IEC 60529 IP20				
	protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529			from the front		
Display						
display version for switcl	hing status	Hand	lle			
Approvals Certificates	9					
General Product Appr	oval					
ccc	EG-Konf.	UK CA	UL			
General Product Approval	For use in hazardous	s locations	Test Certificates		Marine / Shipping	
<u>BIS CRS</u>	IECEX	KEx ATEX	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	
Marine / Shipping					other	
BUREAU VERITAS		Lloyds Register uis	PRS	RINA	<u>Miscellaneous</u>	
other		Railway		Environment		
<u>Confirmation</u>	UDE VDE	Special Test Certific- ate	<u>Confirmation</u>	EPD	Siemens EcoTech	
Environment						
Environmental Con-						

Further information

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=3RV2031-4PA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4PA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4PA10

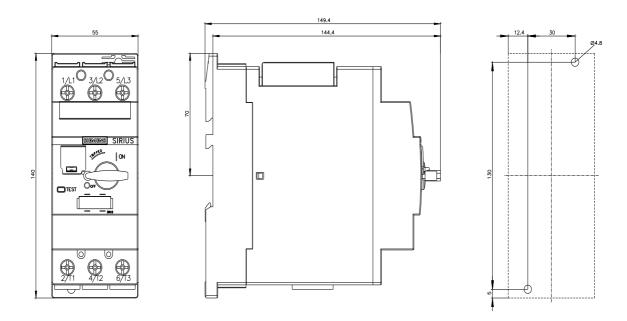
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4PA10&lang=en

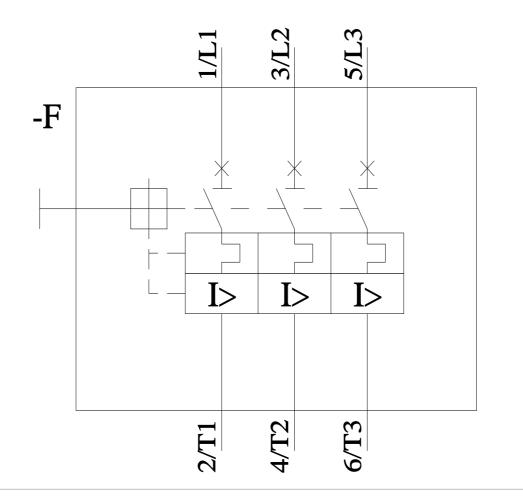
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4PA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4PA10&objecttype=14&gridview=view1





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