SIEMENS

Data sheet

3RV2032-4PA10



Circuit breaker size S2 for motor protection, CLASS 10 A-release 28...36 A N-release 520 A screw terminal increased switching capacity

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	S2
size of contactor can be combined company-specific	\$2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	20 W
 at AC in hot operating state per pole 	6.7 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 (switching cycles)	
 of the main contacts typical 	50 000
 of auxiliary contacts typical 	50 000
electrical endurance (switching cycles) typical	50 000
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/15/2014
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	28 36 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
operating frequency rated value	
operational current rated value	36 A
 operational current at AC-3 at 400 V rated value 	36 A
	36 A
at AC-3e at 400 V rated value	30 A
• 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	50 KW
 at AC-se — 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
	50 KVV
 operating frequency at AC-3 maximum 	15 1/h
 at AC-3 maximum at AC-3e maximum 	15 1/h 15 1/h
	10 1/11
Protective and monitoring functions	
product function	No
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity maximum short-circuit current (Icu)	100 kA
 at AC at 240 V rated value at AC at 400 V rated value 	100 KA
	15 kA
at AC at 500 V rated value	6 kA
at AC at 690 V rated value breaking capacity operating short-circuit current (Ics)	0 KA
at AC	
 at 240 V rated value 	100 kA
 at 400 V rated value 	50 kA
• at 500 V rated value	8 kA
• at 690 V rated value	4 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	30 hp
— at 575/600 V rated value	40 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 240 V	none required
• at 400 V	125
• at 500 V	100
• at 690 V	80

nstallation/ mounting/ dimensions	any			
mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715			
height	140 mm			
width	55 mm			
depth	149 mm			
required spacing				
 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	50 mm			
— downwards	50 mm			
— upwards	50 mm			
— at the side	10 mm			
for live parts at 500 V	50 mm			
— downwards	50 mm			
— upwards — at the side	50 mm			
	10 mm			
 for grounded parts at 690 V downwards 	50 mm			
	50 mm			
— upwards — at the side	50 mm 10 mm			
 for live parts at 690 V 				
 for five 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 circuit	Top and bottom			
type of connectable conductor cross-sections				
for main contacts				
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)			
— finely stranded with core end processing	2x (1 25 mm ²), 1x (1 35 mm ²)			
 at AWG cables for main contacts 	2x (18 2), 1x (18 1)			
tightening torque				
 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			
Safety related data				
B10 value				
 with high demand rate according to SN 31920 	5 000			
proportion of dangerous failures				
with low demand rate according to SN 31920	50 %			
• with high demand rate according to SN 31920	50 %			
failure rate [FIT]				
 with low demand rate according to SN 31920 	50 FIT			
T1 value for proof test interval or service life according to IEC 61508	10 y			
protection class IP on the front according to IEC 60529	IP20			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front			

display version for sw		На	ndle					
Certificates/ approvals General Product Approval								
		<u>Confirmation</u>	٩	<u>KC</u>	EAC			
For use in hazardou	us locations	Declaration of Con	nformity	Test Certificates				
IECEx IECEx	K ATEX	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report			
Marine / Shipping								
ABS	B UREAU VERITAS		Llovd's Register uis	PRS	RINA			
Marine / Shipping	other		Railway					
RARS RARS	<u>Confirmation</u>	VDE	<u>Confirmation</u>	<u>Vibration and Shock</u>				
Further information								

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=3RV2032-4PA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4PA10

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

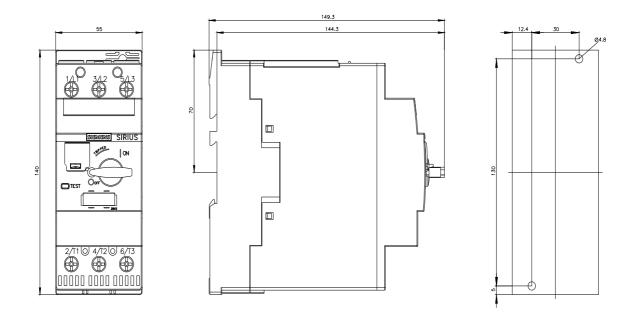
https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4PA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2032-4PA10&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4PA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4PA10&objecttype=14&gridview=view1



last modified:

6/25/2022 🖸