SIEMENS

Data sheet

3RV2032-4TA15



Circuit breaker size S2 for motor protection, CLASS 10 A-release 12...17 A N-release 260 A screw terminal increased switching capacity with transverse auxiliary switches 1 NO+1 NC $\,$

product brand name	SIRIUS		
product designation	Circuit breaker		
design of the product	For motor protection		
product type designation	3RV2		
General technical data	0.02		
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	1 55		
at AC in hot operating state	14.5 W		
 at AC in hot operating state per pole 	4.8 W		
insulation voltage with degree of pollution 3 at AC rated	4.8 W		
value	030 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	12 17 A		
operating voltage			
rated value	20 690 V		
• at AC-3 rated value maximum	690 V		
	690 V		

operating frequency rated value	50 60 Hz
operational current rated value	17 A
operational current	
at AC-3 at 400 V rated value	17 A
• at AC-3e at 400 V rated value	17 A
operating power	
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	15 kW
• at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	15 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 60 V	0.15 A
• at 110 V	0 A
• at 125 V	0 A
• at 220 V	0 A
Protective and monitoring functions	
product function	
 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)	
• at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	100 kA
• at AC at 500 V rated value	18 kA
at AC at 690 V rated value	8 kA
breaking capacity operating short-circuit current (Ics) at AC	
at 240 V rated value	100 kA
	50 kA
• at 400 V rated value	50 kA
at 400 V rated valueat 500 V rated value	10 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 	10 kA 5 kA
at 400 V rated valueat 500 V rated value	10 kA
 at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit 	10 kA 5 kA
at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings	10 kA 5 kA
 at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit 	10 kA 5 kA
at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor	10 kA 5 kA 260 A
 at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 	10 kA 5 kA 260 A 17 A
 at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value 	10 kA 5 kA 260 A 17 A
 at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 600 V rated value at 600 V rated value at 600 V rated value of 600 V rated value for single-phase AC motor 	10 kA 5 kA 260 A 17 A 17 A
 at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value 	10 kA 5 kA 260 A 17 A 17 A 1.5 hp
 at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 10/120 V rated value 	10 kA 5 kA 260 A 17 A 17 A

at 200/208 V rated value	5 bp			
— at 200/208 V rated value	5 hp			
- at 220/230 V rated value	7.5 hp			
— at 460/480 V rated value — at 575/600 V rated value	15 hp			
contact rating of auxiliary contacts according to UL	15 hp C300 / R300			
Short-circuit protection				
	Yes			
product function short circuit protection	magnetic			
design of the short-circuit trip design of the fuse link	magnetic			
 for short-circuit protection of the auxiliary switch 	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current Ik <			
required	400 A)			
design of the fuse link for IT network for short-circuit				
protection of the main circuit				
• at 240 V	none required			
• at 400 V	100			
• at 500 V	80			
• at 690 V	63			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail			
haidht	according to DIN EN 60715			
height	140 mm			
width	55 mm			
depth	149 mm			
required spacing				
 for grounded parts at 400 V 	50 mm			
- 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 				
— 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			
for auxiliary and control 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 (1 25 mm), 1x (1 35 mm) 2x (18 2), 1x (18 1)			
type of connectable conductor cross-sections				
type of connectable conductor cross-sections				

 for auxiliary con 	itacts						
— solid or str				5 1.5 mm²), 2x (0.75	2.5 mm²)		
— finely stran	nded with core end pro	cessing		5 1.5 mm²), 2x (0.75			
	for auxiliary contacts	0		D 16), 2x (18 14)	,		
tightening torque			_ `				
 for main contacts with screw-type terminals 		3 4	.5 N·m				
 for auxiliary contacts with screw-type terminals 			0.8 1.2 N·m				
design of screwdriver shaft		Diameter 5 to 6 mm					
size of the screwdriver tip		Pozidriv size 2					
	of the connection sc	rew		110 0120 2			
 for main contact 			M6				
	 of main contacts of the auxiliary and control contacts 			M3			
-			M3				
Safety related data			_				
B10 value		1 0 1 0 0 0	F 0.00				
	nd rate according to SN	N 31920	5 000				
proportion of dange							
	d rate according to SN		50 %				
	nd rate according to SN	N 31920	50 %				
failure rate [FIT]							
	d rate according to SN		50 FI	Т			
T1 value for proof test IEC 61508	t interval or service life	according to	10 y				
	protection class IP on the front according to IEC		IP20				
touch protection on	touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front				
display version for sw	itching status		Hand	le			
Certificates/ approvals	S						
(SP)		<u>Confirmati</u>	<u>ion</u>	(UL) UL	<u>KC</u>	EHC	
For use in hazardou	For use in hazardous locations Declaration		of Confe	ormity	Test Certificates		
Ex ATEX	IECEX	CE EG-Konf.			Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	
Marine / Shipping							
Frank Bar		£ Å.		Lloyds	(A)		
ABS		DNV		Register	PRS	RINA	
	VERITAS						
Marine / Shipping	other			Railway			
RMRS	<u>Confirmation</u>		}	Vibration and Shock	<u>Confirmation</u>		
Further information Information- and Downloadcenter (Catalogs, Brochures,)							

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https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2032-4TA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4TA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4TA15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

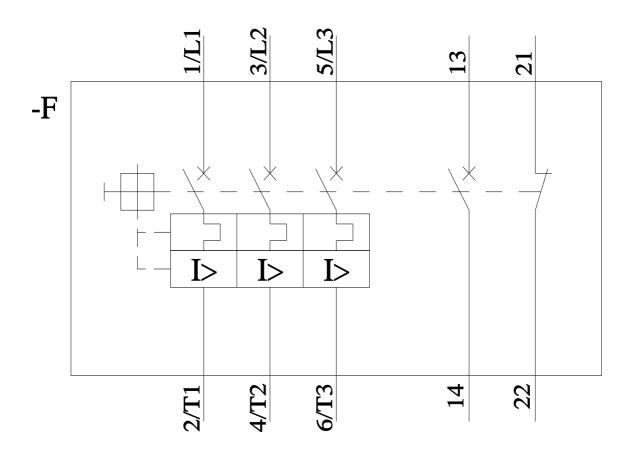
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2032-4TA15&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4TA15/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4TA15&objecttype=14&gridview=view1



last modified:

6/25/2022 🖸