SIEMENS

Data sheet 3RV2032-4XA15



Circuit breaker size S2 for motor protection, CLASS 10 A-release 49...59 A N-release 845 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	
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 	26 W
at AC in hot operating state per pole	8.7 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation in networks with grounded star point	
 between main and auxiliary circuit 	400 V
between main and auxiliary circuit	400 V
shock resistance acc. to IEC 60068-2-27	25g / 11 ms Sinus
mechanical service life (switching cycles)	
 of the main contacts typical 	20 000
of auxiliary contacts typical	20 000
electrical endurance (switching cycles) typical	20 000
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 acc. to IEC 81346-2	Q
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
 ambient temperature during operation 	-20 +60 °C
 ambient temperature during storage 	-50 +80 °C
 ambient temperature during transport 	-50 +80 °C
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the	49 59 A

current-dependent overload release	
 operating voltage rated value 	690 V
 operating voltage at AC-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	59 A
operational current at AC-3 at 400 V rated value	59 A
operating power at AC-3	
 at 230 V rated value 	15 000 W
 at 400 V rated value 	30 000 W
 at 500 V rated value 	37 000 W
 at 690 V rated value 	55 000 W
operating frequency at AC-3 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 operating short-circuit current (Ics)	
at AC	400 4
• at 240 V rated value	100 kA
at 400 V rated value	50 kA
• at 500 V rated value	5 kA
• at 690 V rated value	4 kA
breaking capacity maximum short-circuit current (Icu)	400 hA
at AC at 100 V rated value	100 kA
at AC at 400 V rated value	100 kA
at AC at 500 V rated value at AC at 600 V rated value	10 kA
at AC at 690 V rated value response value current of instantaneous short-circuit trip	6 kA 845 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	59 A
at 600 V rated value	59 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
◆ for 3-phase AC motor	
— at 220/230 V rated value	20 hp
— at 460/480 V rated value	40 hp
— at 575/600 V rated value	50 hp
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	



Yes
magnetic
fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
none required
160
125
100
any
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
140 mm
55 mm
149 mm
50 mm
50 mm
10 mm
50 mm
50 mm
10 mm
50 mm
50 mm
10 mm
50 mm
50 mm
10 mm
50 mm
50 mm
0 mm
10 mm
0 mm
50 mm
50 mm
0 mm
10 mm
0 mm
No
screw-type terminals
screw-type terminals
Top and bottom
2x (1 35 mm²), 1x (1 50 mm²)



at AWG cables for main contacts	2x (18 2), 1x (18 1)	
type of connectable conductor cross-sections	ZX (10 2), 1X (10 1)	
for auxiliary contacts		
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)	
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)	
tightening torque for main contacts with screw-type terminals	3 4.5 N·m	
 tightening torque 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 2	
design of the thread of the connection screw		
 for main contacts 	M6	
 of the auxiliary and control contacts 	M3	
Safety related data		
B10 value		
with high demand rate acc. to SN 31920	5 000	
proportion of dangerous failures		
 with low demand rate acc. to SN 31920 	50 %	
 with high demand rate acc. to SN 31920 	50 %	
failure rate [FIT]		
 with low demand rate acc. to SN 31920 	50 FIT	
T1 value for proof test interval or service life acc. to IEC 61508	10 y	
protection class IP on the front acc. to IEC 60529	IP20	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front	
display version for switching status	Handle	
Certificates/ approvals		
General Product Approval		For use in hazardous







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locations

	For use in hazardous locations	Declaration of Conformity	Test Certificates
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Miscellaneous

Type Test
Certificates/Test
Report

Type Test
Certificates/Test
Report

Special Test Certificate

Test Certificates Marine / Shipping

Type Test
Certificates/Test
Report

Type Test
Certificates/Test
Report









Marine / Shipping other Railway











Confirmation

Railway

Vibration and Shock

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=3RV2032-4XA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4XA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4XA15

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=

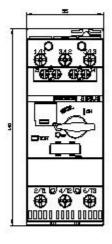
Characteristic: Tripping characteristics, I2t, Let-through current

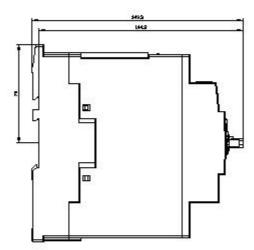
https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4XA15/char

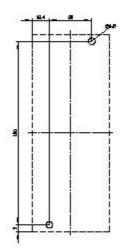
Further characteristics (e.g. electrical endurance, switching frequency)

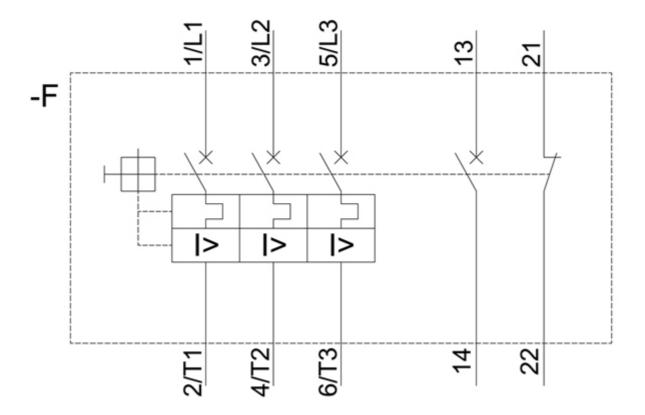
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