SIEMENS

Data sheet 3RV2032-4UA15

Circuit breaker size S2 for motor protection, CLASS 10 A-release 32...40 A N-release 585 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 	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
maximum permissible voltage for safe isolation	
 in networks with grounded star point between main and auxiliary circuit 	400 V

in inetworks with grounded star point between main and auxiliary circuit protection class IP on the front of the terminal hock resistance • acc. to IEC 60068-2-27 mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical for outliness of the main contacts typical electrical endurance (switching cycles) vpipical ype of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU reference code acc. to DIN EN 81346-2 Q Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport -50+80 °C temperature compensation relative humidity during operation installation protection according to ATEX directive 20+60 °C temperature compensation -20+60 °C temperature compensation -20+80 °C during transport -50+80 °C during transport -50+80 °C during transport -50+80 °C temperature compensation -20+60 °C temperature compensation -20+60 °C temperature compensation -20+60 °C temperature to poles for main current circuit 3 adjustable pick-up value current of the current-dependent overfoad release operating voltage - rated value - at AC-3 rated value maximum - eat AC-3 - at 400 V rated value - operating frequency rated value - operating current - at AC-3 - at 400 V rated value		
on the front of the terminal shock resistance ac. to IEC 60088-2-27 mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical of auxiliary contacts typical of protection according to ATEX directive 2014/34/EU 2014/34/EU 2014/34/EU 2014/34/EU 2014/34/EU reference code acc. to DIN EN 81348-2 Q Ambient conditions on installation attitude at height above sea level maximum ambient temperature of utring storage of utring storage of utring transport temperature compensation relative humidity during operation verticative humidity during operation verticative humidity during operation operating voltage operating voltage or and value operating frequency rated value operating current of at AC-3 — at 400 V rated value operating power at AC-3 — at 4300 V rated value operating power at AC-3 — at 230 V rated value 11 000 W		400 V
• of the terminal shock resistance • acc. to IEC 60068-2-27 mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical • of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 20 AMDIO CATEX F 001 2007 Ambient conditions • installation altitude at height above sea level maximum • during operation • during peration • during storage • during transport • during storage • during transport • at AC-3 — at 40 V atted value current circuit • at AC-3 — at 400 V rated value operating current rated value operating current • at AC-3 — at 230 V rated value 11 000 W	protection class IP	
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e acc. to IEC 60068-2-27 mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical electrical endurance (switching cycles) typical so 000 typical ype of protection according to ATEX directive 2014/34/EU reference code acc. to DIN EN 81346-2 Q Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport elduring transport so 0 +80 °C during transport so 0 +80 °C temperature compensation relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable pick-up value current of the current-dependent overload release operating voltage rated value at AC-3 rated value operating current rated value operating current rated value operating current rated value operating current at AC-3 — at 400 V rated value operating power at AC-3 — at 230 V rated value 11 000 W	• of the terminal	IP00
mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU reference code acc. to DIN EN 81346-2 Q Ambient conditions of installation altitude at height above sea level maximum ambient temperature during operation during storage during transport femperature compensation relative humidity during operation Alian circuit number of poles for main current circuit adjustable pick-up value current of the current-dependent overload release operating voltage at AC-3 at AC-3 at AC-3 at AC-3 at 230 V rated value at AC-3 at 230 V rated value 10 000 50 000 50 000 50 000 EX II (2) GD DMT 02 ATEX F 001 20 00 EX III (2) GD DMT 02 ATEX F 001 20 00 m	shock resistance	
of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical electrical endurance (switching cycles) • typical	• acc. to IEC 60068-2-27	25g / 11 ms Sinus
of auxiliary contacts typical electrical endurance (switching cycles) typical type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU Ambient conditions • installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C • during storage • during transport -50 +80 °C temperature compensation -20 +60 °C relative humidity during operation Main circuit number of poles for main current circuit 3 adjustable pick-up value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating current rated value • at AC-3 - at 400 V rated value • at AC-3 - at 400 V rated value • at AC-3 - at 230 V rated value 11 000 W	mechanical service life (switching cycles)	
electrical endurance (switching cycles) • typical type of protection according to ATEX directive 2014/34/EU reference code acc. to DIN EN 81346-2 Q Ambient conditions • installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport temperature compensation relative humidity during operation Main circuit number of poles for main current circuit adjustable pick-up value current of the current-dependent overload release operating requency rated value • at AC-3 rated value • at AC-3 — at 400 V rated value • at AC-3 — at 230 V rated value • at AC-3 — at 230 V rated value • at AC-3 — at 230 V rated value 10 MIT 02 ATEX F 001 EX II (2) GD EX II (2) GD	• of the main contacts typical	50 000
type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU reference code acc. to DIN EN 81346-2 Q Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport temperature compensation relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable pick-up value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum at AC-3 — at 400 V rated value operating power at AC-3 — at 400 V rated value operating power at AC-3 — at 230 V rated value 11 000 W	• of auxiliary contacts typical	50 000
type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU reference code acc. to DIN EN 81346-2 Ambient conditions • installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport temperature compensation relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable pick-up value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating current • at AC-3 — at 400 V rated value operating current • at AC-3 — at 400 V rated value 40 A operating power • at AC-3 — at 400 V rated value 40 A	electrical endurance (switching cycles)	
2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU reference code acc. to DIN EN 81346-2 Ambient conditions • installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport • during transport temperature compensation relative humidity during operation • 20 +60 °C • during transport temperature compensation relative humidity during operation 10 95 % Main circuit number of poles for main current circuit 32 40 A dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating current rated value operating current • at AC-3 — at 400 V rated value operating power • at AC-3 — at 400 V rated value operating power • at AC-3 — at 230 V rated value 11 000 W	● typical	50 000
2014/34/EU reference code acc. to DIN EN 81346-2 Ambient conditions • installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport • during transport -50 +80 °C • 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 pick-up value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating current rated value operating current • at AC-3 — at 400 V rated value 40 A operating power • at AC-3 — at 230 V rated value 11 000 W		Ex II (2) GD
Ambient conditions • installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport temperature compensation relative humidity during operation -20 +60 °C -50 +80 °C -50 +80 °C temperature compensation -20 +60 °C relative humidity during operation -20 +60 °C adjustable pick-up value current circuit 3 32 40 A dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating current rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value operating power • at AC-3 — at 230 V rated value 11 000 W		DMT 02 ATEX F 001
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maximum ambient temperature • during operation • during storage • during transport -50 +80 °C • 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 pick-up value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3 — at 400 V rated value operating power • at AC-3 — at 400 V rated value 11 000 W	Ambient conditions	
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 during storage 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 adjustable pick-up value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum 690 V operating frequency rated value operating current rated value at AC-3 		-20 +60 °C
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relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable pick-up value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating current rated value • at AC-3 — at 400 V rated value • at AC-3 — at 230 V rated value 11 000 W	during transport	-50 +80 °C
number of poles for main current circuit adjustable pick-up value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating current rated value operating current rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value 11 000 W	temperature compensation	-20 +60 °C
number of poles for main current circuit adjustable pick-up value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating current rated value • at AC-3 — at 400 V rated value 40 A operating power • at AC-3 — at 230 V rated value 11 000 W	relative humidity during operation	10 95 %
number of poles for main current circuit adjustable pick-up value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating current rated value • at AC-3 — at 400 V rated value 40 A operating power • at AC-3 — at 230 V rated value 11 000 W	Main circuit	
dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V operating frequency rated value operating current rated value • at AC-3 — at 400 V rated value • at AC-3 — at 230 V rated value 11 000 W		3
operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating current rated value operating current • at AC-3 — at 400 V rated value • at AC-3 — at 230 V rated value 11 000 W	adjustable pick-up value current of the current-	32 40 A
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operating current rated value operating current at AC-3 — at 400 V rated value operating power at AC-3 — at 230 V rated value 40 A		
operating current • at AC-3 — at 400 V rated value operating power • at AC-3 — at 230 V rated value 11 000 W		
● at AC-3 — at 400 V rated value 40 A operating power ● at AC-3 — at 230 V rated value 11 000 W		40 A
— at 400 V rated value operating power • at AC-3 — at 230 V rated value 40 A 11 000 W		
operating power ● at AC-3 — at 230 V rated value 11 000 W		
● at AC-3 — at 230 V rated value 11 000 W		40 A
— at 230 V rated value 11 000 W		
— at 400 V rated value 18 500 W		
	— at 400 V rated value	18 500 W

— at 500 V rated value	22 000 W
— at 690 V rated value	37 000 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
operating current of auxiliary contacts at AC-15	
● at 24 V	2 A
● at 230 V	0.5 A
operating 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
operational short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 kA
• at 400 V rated value	50 kA
• at 500 V rated value	8 kA
maximum short-circuit current breaking capacity (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	15 kA
• at AC at 690 V rated value	6 kA
response value current	
 of instantaneous short-circuit trip unit 	585 A

UL/CSA ratings	
full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	40 A
• at 600 V rated value	40 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 three-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
contact rating of auxiliary contacts according to UL	C300 / R300

Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
 for short-circuit protection of the auxiliary switch required 	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 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	125
● at 500 V	100
● at 690 V	80

nstallation/ mounting/ dimensions	
mounting position	any
mounting type	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
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
• for live parts at 400 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
• for grounded parts at 500 V	

— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
• for live parts at 500 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
• for grounded parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm

Connections/ Terminals	
product function	
 removable terminal for auxiliary and control 	No
circuit	
type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control 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	
— single or multi-stranded	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
 at AWG conductors for main contacts 	2x (18 2), 1x (18 1)
 type of connectable conductor cross-sections 	
for auxiliary contacts	
— single or multi-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)

 type of connectable conductor cross-sections at AWG conductors for auxiliary contacts 	2x (20 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 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	10 y	
IEC 61508		
display version		
• for switching status	Handle	

Certificates/ approvals

General Product Approval

For use in hazardous locations













For use in haz-	Declaration of Conformity	Test Certificates	Marine / Ship-
ardous loca-			ping
tions			





Miscellaneous

Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping





LRS









other	Railwa
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Confirmation



Vibration and Shock

Confirmation

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=3RV2032-4UA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4UA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4UA15

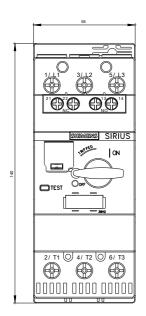
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2032-4UA15&lang=en

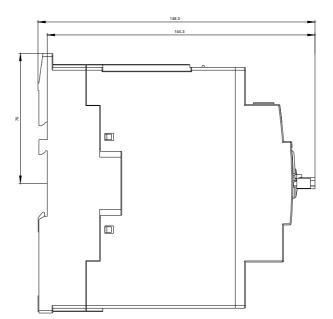
Characteristic: Tripping characteristics, I²t, Let-through current

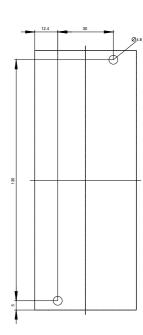
https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4UA15/char

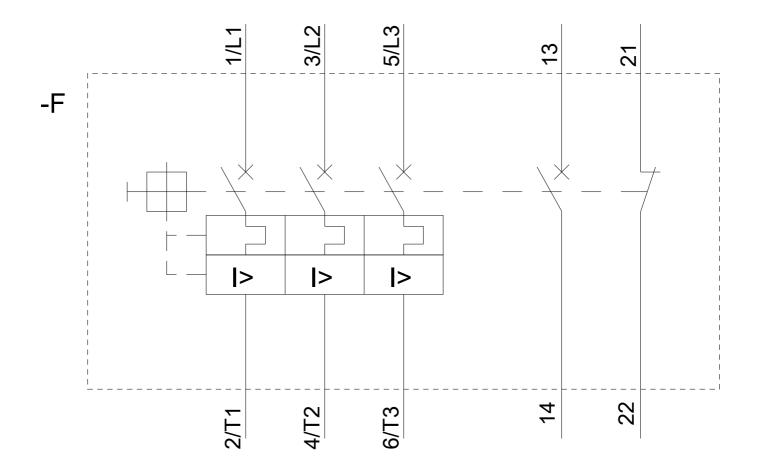
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4UA15&objecttype=14&gridview=view1









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