SIEMENS

Data sheet 3RV2031-4EA15



Circuit breaker size S2 for motor protection, CLASS 10 A-release 22...32 A N-release 416 A screw terminal Standard 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 	18 W
 at AC in hot operating state per pole 	6 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 (operating cycles)	
 of the main contacts typical 	50 000
 of auxiliary contacts typical 	50 000
electrical endurance (operating 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	22 32 A
current-dependent overload release	
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	32 A

operational current	
at AC-3 at 400 V rated value	32 A
at AC-3e at 400 V rated value	32 A
operating power	<u></u>
• at AC-3	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	30 kW
• at AC-3e	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	30 kW
operating frequency	4.5. 4.1
 at AC-3 maximum at AC-3e maximum 	15 1/h 15 1/h
	15 1/11
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	1
operational current of auxiliary contacts at AC-15 • at 24 ∨	2 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	0.071
• 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
maximum short-circuit current breaking capacity (Icu)	100 kA
at AC at 400 V rated value	65 kA
at AC at 400 V rated valueat AC at 500 V rated value	10 kA
at AC at 690 V rated value at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (Ics)	7 10 1
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 416 A
response value current of instantaneous short-circuit trip unit	410 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	32 A
• at 600 V rated value	32 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	5 hp
• for 3-phase AC motor	10 ha
— at 200/208 V rated value	10 hp
 — at 220/230 V rated value — at 460/480 V rated value 	10 hp 25 hp
— at 450/460 V rated value	30 hp
— at 070,000 v lated value	OU TIP
contact rating of auxiliary contacts according to UL	C300 / R300

product function short circuit protection design of the short-circuit protection of the suxiliary switch required specified of the fuse link (or short-circuit protection of the auxiliary switch required (absign of the fuse link for IT network for short-circuit protection of the main circuit (absign of the fuse link for IT network for short-circuit protection of the main circuit (absign of the fuse link for IT network for short-circuit protection of the main circuit (absign of the fuse link for IT network for short-circuit protection of the main circuit (absign of the fuse link for IT network for short-circuit protection of the main circuit (absign of the fuse link for IT network for short-circuit protection of the main circuit (absign of the fuse link for IT network for short-circuit (absign of the fuse link for IT n	Short-circuit protection	
design of the short-circuit trip design of the fuse link * for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit * at 240 V * at 400 V * at 400 V * at 600 V * at 600 V * at 600 V * at 680 V		Yes
design of the fuse link * for short-circuit protection of the auxiliary switch required design of the fuse link for I'r network for short-circuit protection of the main circuit ***o at 24 00 V** * at 400 V** * at 500 V** * at 600 V**	·	
or farbort-circuit protection of the auxiliary switch required design of the fuse link for it'n network for short-circuit protection of the main circuit		
design of the fuse link for IT network for short-circuit protection of the main circuit	•	fuse qG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk <
design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V		
protection of the main circuit	·	,
	• at 240 V	none required
■ at 890 V	● at 400 V	125
mounting position fastering method 60715 height width 55 mm depth 149 mm required spacing • with side-by-side mounting at the side 6 for grounded parts at 400 V — downwards 50 mm — at the side 10 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — at the side 10 mm • for min current circuit 50 mm • for min current circuit 50 mm • for min current circuit 50 mm • for min current circuit 50 mm • for min contacts 50 mm • for min contacts 50 mm • fire min contacts 50 mm • at AlvG cables for main cortacts 50 x (1 25 mm²), 1x (1 25 mm²) • at AlvG cables for main cortacts 50 x (1	● at 500 V	100
mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width depth 140 mm vidth depth 149 mm required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — of frive parts at 400 V — downwards — of frive parts at 400 V — downwards — at the side • for grounded parts at 500 V — downwards — at the side • for grounded parts at 500 V — downwards — opwards — opwards — opwards — opwards — opwards — opwards — of live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — opwards — of live parts at 500 V — downwards — opwards — of frive parts at 500 V — downwards — opwards — of frive parts at 690 V — downwards — of frive parts at 690 V — downwards — at the side • for grounded parts at 690 V — downwards — at the side • for grounded parts at 690 V — downwards — of main cornect or some control circuit • for auxillary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AVG cables for main cortacts 2x (125 mm²), 1x (135 mm²) — (2x (125 mm²), 1x (135 mm²) — (2x (135 mm²)	● at 690 V	80
mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width depth 140 mm vidth depth 149 mm required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — of frive parts at 400 V — downwards — of frive parts at 400 V — downwards — at the side • for grounded parts at 500 V — downwards — at the side • for grounded parts at 500 V — downwards — opwards — opwards — opwards — opwards — opwards — opwards — of live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — opwards — of live parts at 500 V — downwards — opwards — of frive parts at 500 V — downwards — opwards — of frive parts at 690 V — downwards — of frive parts at 690 V — downwards — at the side • for grounded parts at 690 V — downwards — at the side • for grounded parts at 690 V — downwards — of main cornect or some control circuit • for auxillary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AVG cables for main cortacts 2x (125 mm²), 1x (135 mm²) — (2x (125 mm²), 1x (135 mm²) — (2x (135 mm²)	Installation/ mounting/ dimensions	
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60715 140 mm 14		
width depth 55 mm depth 149 mm required spacing		
width depth 55 mm required spacing with side-by-side mounting at the side 0 mm • for grounded parts at 400 V 50 mm — upwards 50 mm — at the side 10 mm • for live parts at 400 V 50 mm — upwards 50 mm — at the side 10 mm • for grounded parts at 500 V 60 mm — downwards 50 mm — at the side 10 mm • for live parts at 500 V 60 mm — at the side 10 mm • for live parts at 500 V 60 mm — at the side 10 mm • for grounded parts at 690 V 60 mm — at the side 10 mm • for grounded parts at 690 V 60 mm — downwards 50 mm — at the side 10 mm • for live parts at 690 V 60 mm — downwards 50 mm — at the side 10 mm • for live parts at 690 V 60 mm — downwards 50 mm — at the side 10	height	140 mm
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• with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — at the side — to make the side — to	depth	149 mm
• with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — at the side — to make the side — to	•	
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- downwards		
- upwards - at the side • for live parts at 400 V - downwards - upwards - at the side • for grounded parts at 500 V - downwards - at the side • for grounded parts at 500 V - downwards - at the side • for live parts at 500 V - downwards - at the side • for live parts at 500 V - downwards - at the side • for live parts at 500 V - downwards - upwards - at the side • for grounded parts at 690 V - downwards - at the side • for grounded parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side - for live parts at 690 V - downwards - at the side - for live parts at 690 V - downwards - at the side - for side connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts - x (1 25 mm²), 1x (1 25 mm²) - xt AWG cables for main contacts - x (2 x (1 31, 1x (18 2)		50 mm
• for live parts at 400 V	•	
- downwards - upwards - at the side • for grounded parts at 500 V - downwards - upwards - the side • for grounded parts at 500 V - downwards - at the side • for live parts at 500 V - downwards - at the side • for grounded parts at 690 V - downwards - at the side • for grounded parts at 690 V - downwards - upwards - at the side • for grounded parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - upwards - at the side • for main contacts - solid or stranded • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts - stranded with core end processing • at AWG cables for main contacts - 2x (1 25 mm²), 1x (1 25 mm²) - 2x (1 .		
- upwards - at the side • for grounded parts at 500 V - downwards - upwards - at the side • for live parts at 500 V - downwards - upwards - at the side - for grounded parts at 690 V - downwards - upwards - at the side - for live parts at 690 V - downwards - of live parts at 690 V - downwards - upwards - the side - to main current circuit - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - 2x (1 25 mm²), 1x (1 25 mm²) - 2x (18 3), 1x (18 2)	•	50 mm
- at the side • for grounded parts at 500 V - downwards - upwards - at the side • for live parts at 500 V - downwards - upwards - upwards - at the side • for grounded parts at 500 V - downwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - the side • for live parts at 690 V - downwards - upwards - the side • for live parts at 690 V - downwards - upwards - upwards - upwards - the side 10 mm Connections/ Torminals type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts 2x (1 25 mm²), 1x (1 25 mm²) 2x (1 25 mm²), 1x (1 25 mm²) 2x (1 25 mm²), 1x (1 25 mm²)		
• for grounded parts at 500 V	•	
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 for live parts at 690 V — downwards — upwards — at the side — screw-type terminals — screw-type terminals — top and bottom — top and bottom — at the side — at the side — screw-type terminals — top and bottom — top and bottom — solid or stranded — solid or stranded — finely stranded with core end processing — at the side — screw-type terminals — top and bottom — top and bottom — screw-type terminals — top and bottom — top and bottom — screw-type terminals — top and bottom — top and bottom — screw-type terminals — top and bottom — top and bottom — screw-type terminals — top and bottom — top and bottom — top and bottom — screw-type terminals — top and bottom — screw-type terminals — top and bottom — top and bottom	•	
- downwards - upwards - at the side Connections/ Terminals type of electrical connection		10 111111
— upwards — at the side Connections/ Terminals type of electrical connection	•	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 type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts 2 x (1 25 mm²), 1x (1 35 mm²) 2 x (1 16 mm²), 1x (1 25 mm²) 2 x (1 25 mm²), 1x (1 25 mm²)		
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 — finely stranded with core end processing at AWG cables for main contacts 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 		2v (1 25 mm²\ 1v (1 25 mm²\
• at AWG cables for main contacts 2x (18 3), 1x (18 2)		
tune of connectable conductor erose coctions		ΔX (10 3), 1X (18 Δ)
type of connectable conductor cross-sections		
• for auxiliary contacts		0 (0 5 4 5 3) 0 (0 5 5 0 5 3)
— 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)		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 	for auxiliary contacts with screw-type terminals	0.8 1.2 N·m

Diameter 5 to 6 mm design of screwdriver shaft Pozidriv size 2 size of the screwdriver tip 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 according to SN 31920

proportion of dangerous failures

• with low demand rate according to SN 31920 50 % 50 %

• with high demand rate according to SN 31920

failure rate [FIT]

• with low demand rate according to SN 31920

T1 value for proof test interval or service life according to

IEC 61508

protection class IP on the front according to IEC

60529

touch protection on the front according to IEC 60529

display version for switching status

finger-safe, for vertical contact from the front

Handle

5 000

50 FIT

10 a

IP20

Certificates/ approvals

General Product Approval





Confirmation



KC



For use in hazardous locations

Declaration of Conformity

Test Certificates











Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping

other

Railway



Confirmation



Confirmation

Vibration and Shock

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=3RV2031-4EA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4EA15

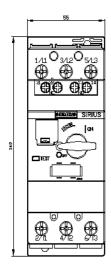
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4EA15

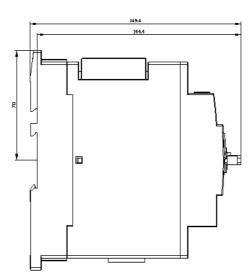
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4EA15\&lang=en}$

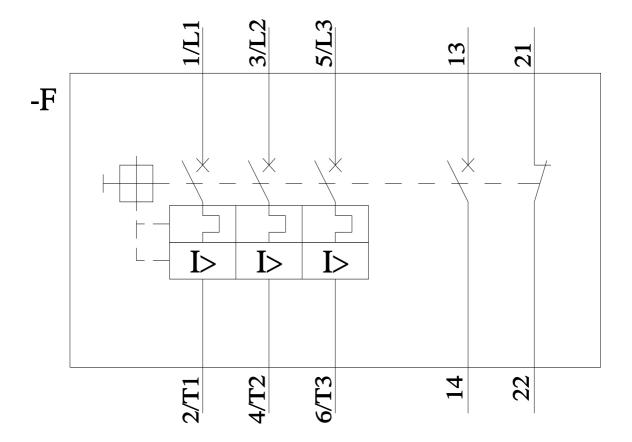
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4EA15/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4EA15&objecttype=14&gridview=view1









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