SIEMENS

Data sheet 3RV2032-4DA10



Circuit breaker size S2 for motor protection, CLASS 10 A-release 18...25 A N-release 325 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	S2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 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 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 current-dependent overload release	18 25 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
operational current rated value	25 A

anavatianal augment	
operational current	05 A
• at AC-3 at 400 V rated value	25 A
• at AC-3e at 400 V rated value	25 A
operating power • at AC-3	
— at 230 V rated value	5.5 kW
	11 kW
— at 400 V rated value	15 kW
— at 500 V rated value	
— at 690 V rated value	22 kW
• at AC-3e	E E IAM
— at 230 V rated value — at 400 V rated value	5.5 kW
	11 kW
— at 500 V rated value — at 690 V rated value	15 kW 22 kW
	ZZ KVV
operating frequency	4.F. 4.lb
 at AC-3 maximum at AC-3e maximum 	15 1/h 15 1/h
	15 1/11
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)	
 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
operating short-circuit current breaking capacity (lcs) at AC	
at 240 V rated value	100 kA
at 400 V rated value	50 kA
at 500 V rated value	10 kA
at 690 V rated value	5 kA
response value current of instantaneous short-circuit trip	325 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	05.4
at 480 V rated value	25 A
• at 600 V rated value	25 A
yielded mechanical performance [hp]	
• for single-phase AC motor	2 ha
— at 110/120 V rated value	2 hp
— at 230 V rated value	5 hp
 for 3-phase AC motor — at 200/208 V rated value 	7.5 ha
— at 220/230 V rated value — at 220/230 V rated value	7.5 hp 10 hp
— at 460/480 V rated value	20 hp
— at 460/460 V rated value — at 575/600 V rated value	25 hp
	20 TIP
Short-circuit protection	V
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	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 DIN rail according to DIN EN
•	60715
height	140 mm
width	55 mm

depth	149 mm
required spacing	
 with side-by-side mounting at the side 	0 mm
 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 	
— 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	10 111111
— downwards	50 mm
	50 mm
— upwards — at the side	10 mm
	10 111111
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)
	2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²)
— solid or stranded	
— solid or stranded— finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts 	2x (1 25 mm²), 1x (1 35 mm²)
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque 	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals 	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m
 solid or stranded finely stranded with core end processing at AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft 	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm
 solid or stranded finely stranded with core end processing at AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip 	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts 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	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 %
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts 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 • with high demand rate according to SN 31920	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts 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 • with high demand rate according to SN 31920 failure rate [FIT]	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 %
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts 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 • 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	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 %
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts 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 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 %
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts 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 swith 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	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT 10 a IP20
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts 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 • 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	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts 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 • 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	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT 10 a IP20
— solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts 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 • 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	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front



Confirmation





<u>KC</u>



For use in hazardous locations

Declaration of Conformity

Test Certificates









Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping





Confirmation









Marine / Shipping

other



Confirmation

Railway

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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2032-4DA10}$

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4DA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4DA10

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

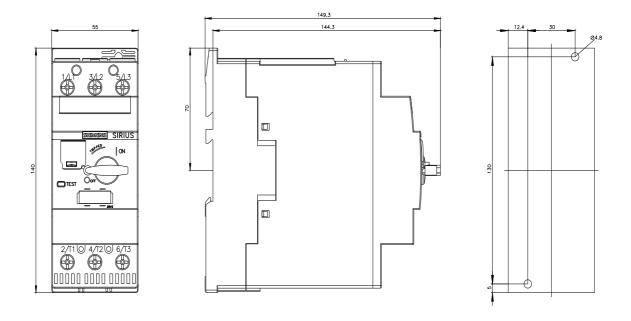
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2032-4DA10&lang=en

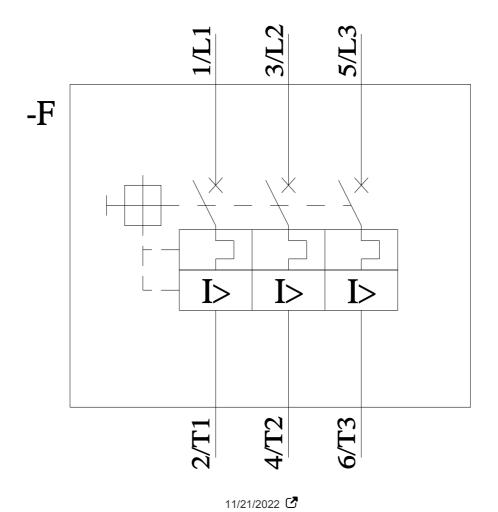
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4DA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4DA10&objecttype=14&gridview=view1





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