SIEMENS

Data sheet 3RV2021-4NA25



Circuit breaker size S0 for motor protection, CLASS 10 A-release 23...28 A N-release 364 A Spring-type 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	S0
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	13.25 W
at AC in hot operating state per pole	4.4 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
mechanical service life (switching cycles)	
 of the main contacts typical 	100 000
of auxiliary contacts typical	100 000
electrical endurance (switching cycles) typical	100 000
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
Substance Prohibitance (Date)	01.10.2009 00:00:00
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
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	

number of poles for main surrent circuit	2
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	23 28 A
operating voltage	
• rated value	690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	28 A
operational current at AC-3 at 400 V rated value	28 A
operating power at AC-3	2071
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	22 kW
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
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 120 V	0.5 A
• at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	0.5 A
• at 24 V	1 A
• at 60 V	0.15 A
	0.13 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	
at 240 V rated value	100 kA
 at 400 V rated value 	25 kA
• at 500 V rated value	5 kA
at 690 V rated value	2 kA
breaking capacity maximum short-circuit current (Icu)	
• at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	55 kA
at AC at 500 V rated value	10 kA
at AC at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	364 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	28 A
at 600 V rated value	28 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— 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 hp
— at 220/230 V rated value	10 hp
— at 460/480 V rated value	20 hp

Short-circuit protection product function short circuit trip 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 * all 400 V * all 500 V	contact rating of auxiliary contacts according to UL	C300 / R300
product function short circuit protection design of the short-circuit protection of the sus link		
design of the fuse link Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 400 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 40 A) Fuse plugG: 10 A, miniature circuit breaker C 6 A (short-circuit current like 40 A) Fuse plugG: 10 A, m		Yes
design of the fuse link vior short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit early 0.7 g. 1630 V g.		
of short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit el st 500 V		magnosio
protection of the main circuit	for short-circuit protection of the auxiliary switch required	
at 400 V at 500 V at 500 V beta 500 V glugG 63 A glugG 64 glugG 64 glugG 64 glugG 63 A glugG 64		
* et 500 V * et 890 V *	•	al /aC 63 A
* at 890 V gL/gG 63 A Installation/ mounting/ olimonsions mounting position any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 80715 height 119 mm vidth 45 mm depth 97 mm required spacing ** for grounded parts at 400 V		
mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN En 60715 height 119 mm width 45 mm depth 77 mm required spacing • for grounded parts at 400 V — downwards — at the side — upwards — at the side • for fre 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 — at the side • for grounded parts at 500 V — downwards — at the side • for grounded parts at 500 V — downwards — at the side • for grounded parts at 500 V — downwards — at the side • for grounded parts at 500 V — downwards — at the side • for grounded parts at 500 V — downwards — at the side • for grounded parts at 500 V — downwards — backwards — backwards — backwards — backwards — backwards — on mm Connections/ Terminals product component removable terminal for auxiliary and of for least current circuit • for auxiliary and control circuit • for main contacts • for main contacts • for main contacts • for main contacts • for owneal connectors for main current circuit • for owneal connectors or main current circuit type of connectable conductor cross-sections • for main contacts • for owneal connectance connectors • for main contacts • for main contacts • for connectable conductor cross-sections • for main contacts • for owneal conductor cross-sections • for main contacts • for main		
mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 119 mm width 45 mm depth 97 mm required spacing • for grounded parts at 400 V — downwards 30 mm — upwards 9 mm • for live parts at 400 V — downwards 30 mm — upwards 30 mm — upwards 30 mm — at the side 9 mm • for live parts at 500 V — downwards 30 mm — at the side 9 mm • for live parts at 500 V — downwards 30 mm — upwards 30 mm — at the side 9 mm • for live parts at 500 V — downwards 30 mm — upwards 30 mm — at the side 9 mm • for live parts at 690 V — downwards 50 mm — upwards 50 mm — backwards 0 mm — at the side 30 mm — the side 30 mm — the side 30 mm — backwards 0 mm — backwards 0 mm — forwards 50 mm — the side 30 mm — for live parts at 690 V — downwards 50 mm — powards 0 mm — for live parts at 690 V — downwards 50 mm — powards		9L90 03 A
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- upwards - at the side • for live parts at 400 V - downwards - upwards - at the side • for grounded parts at 500 V - downwards - upwards - 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 - at the side - upwards - at the side • for grounded parts at 690 V - downwards - at the side - backwards - upwards - at the side - forwards - to mm - to mm - to mm - the side - forwards - upwards - to mm - the side - forwards - upwards - to mm - the side - forwards - upwards - to mm - the side - forwards - upwards - backwards - upwards - backwards - upwards - backwards - upwards - backwards - upwards - to mm - the side - formards - the side - formard		
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- at the side 9 mm • for live parts at 500 V - downwards 30 mm - upwards 30 mm • for grounded parts at 690 V - downwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 30 mm - forwards 0 mm • for live parts at 690 V - downwards 50 mm - backwards 0 mm • for live parts at 690 V - downwards 50 mm • for live parts at 690 V - downwards 50 mm • for live parts at 690 V - downwards 50 mm - backwards 0 mm - tat the side 30 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - forwards 0 mm - forwards 0 mm No Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit spring-loaded terminals arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts		
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- at the side - forwards 0 mm • for live parts at 690 V - downwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 30 mm - orwards 0 mm - at the side 30 mm - forwards 0 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit 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	•	50 mm
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- backwards 0 mm - at the side 30 mm - forwards 0 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection		
- at the side - forwards 0 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection		
— forwards 0 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit 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 0 mm No No Top and bottom		
product component removable terminal for auxiliary and control circuit 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		
product component removable terminal for auxiliary and control circuit 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 No No No Spring-loaded terminals Spring-loaded terminals Top and bottom		0 mm
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 • for main contacts		
• 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 • for main current circuit spring-loaded terminals Top and bottom		No
 ◆ for auxiliary and control circuit spring-loaded terminals arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections ◆ for main contacts 	type of electrical connection	
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts Top and bottom		spring-loaded terminals
type of connectable conductor cross-sections • for main contacts		·
• for main contacts	circuit	Top and bottom
	type of connectable conductor cross-sections	
— solid or stranded 2x (1 10 mm²)		
	— solid or stranded	2x (1 10 mm²)

 finely stranded with core end processing 	2x (1 6 mm²)
 finely stranded without core end processing 	2x (1 6 mm²)
at AWG cables for main contacts	2x (18 8)
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 1.5 mm²)
 at AWG cables for auxiliary contacts 	2x (20 14)
design of screwdriver shaft	Diameter 3 mm
size of the screwdriver tip	3,0 x 0,5 mm
Safety related data	
B10 value	
with high demand rate acc. to SN 31920	5 000
proportion of dangerous failures	
proportion of dangerous fandres	
with low demand rate acc. to SN 31920	50 %
	50 % 50 %
with low demand rate acc. to SN 31920	
with low demand rate acc. to SN 31920with high demand rate acc. to SN 31920	
with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT]	50 %
with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to	50 % 50 FIT
with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508	50 % 50 FIT 10 y
with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529	50 % 50 FIT 10 y IP20



General Product Approval





<u>KC</u>





For use in hazard-

ous locations

For use in hazardous locations Declaration of Conformity

Test Certificates



Marine / Shipping



IECEX



Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping



LRS









Confirmation

other

other Railway



Vibration and Shock

Confirmation

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=3RV2021-4NA25

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4NA25

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4NA25

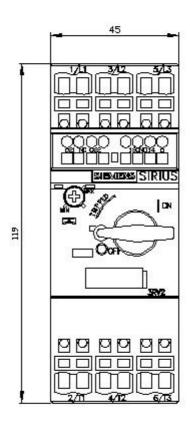
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

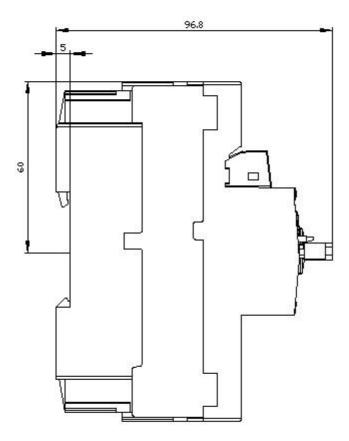
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4NA25&lang=en

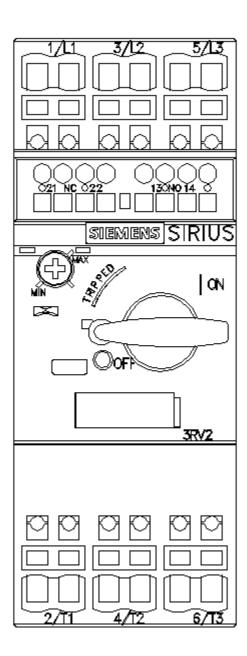
Characteristic: Tripping characteristics, I2t, Let-through current

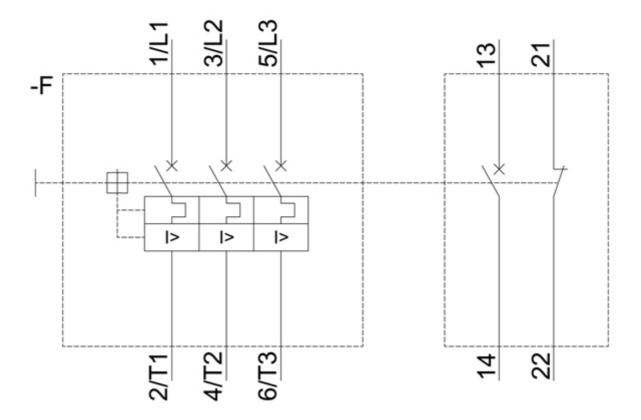
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4NA25/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4NA25&objecttype=14&gridview=view1









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