SIEMENS

Data sheet

3RV2021-4BA25



Circuit breaker size S0 for motor protection, CLASS 10 A-release 13...20 A N-release 260 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 	10.5 W
 at AC in hot operating state per pole 	3.5 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
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	13 20 A



current-dependent overload release	
	690 V
operating voltage rated value	
operating voltage at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	20 A
operational current at AC-3 at 400 V rated value	20 A
operating power at AC-3	5 500 144
at 230 V rated value	5 500 W
at 400 V rated value	7 500 W
at 500 V rated value	11 000 W
at 690 V rated value	15 000 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
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	
• at 24 V	1 A
• at 60 V	0.15 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 Ao	
 at 240 V rated value 	100 kA
 at 240 V rated value at 400 V rated value 	100 kA 25 kA
• at 400 V rated value	25 kA
at 400 V rated valueat 500 V rated value	25 kA 5 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 	25 kA
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu)	25 kA 5 kA 2 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 	25 kA 5 kA
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value 	25 kA 5 kA 2 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value 	25 kA 5 kA 2 kA 100 kA 55 kA
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value 	25 kA 5 kA 2 kA 100 kA 55 kA 10 kA
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value 	25 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value at AC at 690 V rated value 	25 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA
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 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value t AC at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor	25 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 260 A
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value t AC at 690 V rated value at AC at 690 V rated value 	25 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 260 A
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 	25 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 260 A
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp] 	25 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 260 A
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value bit 600 V rated value at 600 V rated value bit 600 V rated value bit 600 V rated value bit 600 V rated value 	25 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 260 A 20 A 20 A 20 A
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 240 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value 	25 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 260 A 20 A 20 A
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 110/120 V rated value at 230 V rated value 	25 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 260 A 20 A 20 A 20 A
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 230 V rated value for 3-phase AC motor 	25 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 260 A 20 A 20 A 1.5 hp 3 hp 7.5 hp
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 110/120 V rated value at 110/120 V rated value for 3-phase AC motor at 230 V rated value 	25 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 260 A 20 A 20 A 1.5 hp 3 hp
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 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 240 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value 	25 kA 5 kA 2 kA 100 kA 55 kA 10 kA 4 kA 260 A 20 A 20 A 20 A 7.5 hp 5 hp 10 hp

design of the short-circuit trip magnetic design of the fuse link For short-circuit protection of the auxiliary switch required Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit cur lik < 400 A) design of the fuse link for IT network for short-circuit protection of the main circuit gL/gG 63 A gL/gG 50 A • at 800 V gL/gG 50 A • at 800 V gL/gG 50 A Installation/ mounting/dimensions arcording 10 NIE N8 60715 mounting position any fastening method screw and snap-on mounting onto 35 mm standard mounting rail according 10 NIE N8 60715 height 119 mm width 45 mm depth 97 mm required spacing 07 mm • for grounded parts at 400 V 30 mm - at the side 9 mm • for live parts at 400 V 30 mm - at the side 9 mm • for grounded parts at 500 V 30 mm - at the side 9 mm • for live parts at 500 V 30 mm - at the side 9 mm • for grounded parts at 500 V 30 mm - at the side 9 m	oduct function short circuit protection	Yes		
design of the fuse link for short-circuit protection of the auxiliary switch required at 400 V at 400 V gL/gG 63 A gL/gG 50 A i at 600 V gL/gG 50 A fastening method any fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 119 mm width 45 mm depting method 30 mm - at the side 9 mm of or five parts at 400 V - downwards - at the side 9 mm - for live parts at 400 V - downwards - at the side 9 mm - for live parts at 400 V - downwards - at the side 9 mm - for live parts at 500 V - downwards - at the side 9 mm - for grounded parts at 500 V - downwards - at the side 9 mm - for live parts at 500 V - downwards - at the side 9 mm - for grounded parts at 500 V - downwards - upwards </td <td></td> <td></td>				
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 out 400 V et 600 V gL/gG 63 A gL/gG 60 A et 600 V gL/gG 60 A et 600 V				
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• at 600 V Installator/ mounting dimensions mounting position fastening method fa	• at 400 V	gL/gG 63 A		
Installation/ mounting/ dimensions mounting position any fastening method according to DIN EN 60715 height 119 mm width 45 mm depth 97 mm required spacing 6 onwards • for grounded parts at 400 V 30 mm - upwards 30 mm - at the side 9 mm • for live parts at 400 V - - downwards 30 mm - at the side 9 mm • for live parts at 400 V - - downwards 30 mm - at the side 9 mm • for grounded parts at 500 V - - downwards 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 grounded parts at 690 V	• at 500 V	gL/gG 50 A		
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required spacing• for grounded parts at 400 V- downwards30 mm- upwards30 mm- upwards9 mm• for live parts at 400 V downwards30 mm- upwards30 mm- upwards30 mm- upwards30 mm- at the side9 mm• for grounded parts at 500 V downwards30 mm- upwards30 mm- upwards30 mm- at the side9 mm• for grounded parts at 500 V downwards30 mm- upwards30 mm- upwards30 mm- at the side9 mm• for live parts at 500 V downwards30 mm- at the side9 mm• for grounded parts at 500 V downwards30 mm- at the side9 mm• for grounded parts at 690 V downwards50 mm- backwards0 mm- forwards0 mm- forwards0 mm- forwards50 mm- upwards50 mm- downwards50 mm- downwards50 mm- hackwards50 mm- upwards50	dth	45 mm		
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downwards50 mm upwards50 mm backwards0 mm at the side30 mm		0 mm		
upwards50 mm backwards0 mm at the side30 mm		50 mm		
— backwards 0 mm — at the side 30 mm				
— at the side 30 mm				
	— forwards	0 mm		
Connections/ Terminals				
		No		
product function removable terminal for auxiliary and No control circuit				
type of electrical connection	pe of electrical connection			
for main current circuit spring-loaded terminals		spring-loaded terminals		
for auxiliary and control circuit spring-loaded terminals	 for auxiliary and control circuit 			
arrangement of electrical connectors for main current Top and bottom	rangement of electrical connectors for main current	Top and bottom		
type of connectable conductor cross-sections	pe of connectable conductor cross-sections			
for main contacts	for main contacts			
- solid or stranded 2x (1 10 mm ²)	— solid or stranded	2x (1 10 mm²)		
 finely stranded with core end processing 2x (1 6 mm²) 	- finely stranded with core end processing	2x (1 6 mm²)		
— finely stranded without core end processing 2x (1 6 mm ²)	- finely stranded without core end processing	2x (1 6 mm²)		

 at AWG cables 	cables for main contacts		2x (18 8)				
	type of connectable conductor cross-sections		. , , , , , , , , , , , , , , , , , , ,				
 for auxiliary cor 							
— solid or stranded			2x (0.5 2.5 mm²)				
— finely strar	— finely stranded with core end processing			2x (0.5 1.5 mm ²)			
— finely strar	— finely stranded without core end processing		2x (0.5 1.5 mm ²)				
 at AWG cables 	for auxiliary contacts		2x (20 14)				
design of screwdriv	er shaft		Diameter 3 mm				
size of the screwdriv	ver tip		3,0 x 0,5 mm				
Safety related data							
B10 value							
 with high dema 	nd rate acc. to SN 319	20	5 000				
proportion of dange	proportion of dangerous failures						
 with low deman 	with low demand rate acc. to SN 31920		50 %				
 with high dema 	nd rate acc. to SN 319	20	50 %				
failure rate [FIT]							
 with low deman 	• with low demand rate acc. to SN 31920		50 FIT				
	st interval or service	life acc. to	10 y				
IEC 61508							
	on the front acc. to IE		IP20				
	the front acc. to IEC		finger-safe, for vertical cont	act from the front			
display version for sw	-		Handle				
Certificates/ approval	S						
					For use in		
General Product Approval					hazardous locations		
A		W		EHC	IECEX		
For use in hazardous locations	Declaration of Con	formity	Test Certificates		Marine / Shipping		
ATEX	<u>Miscellaneous</u>	CE EG-Konf.	<u>Special Test</u> <u>Certificate</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	ABS		
Marine / Shipping							
BUREAU VERITAS	Llovd's Register urs	PRS	RINA	RMRS			
other		Railway					
<u>Confirmation</u>		Vibration and She	ock <u>Confirmation</u>				
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=3RV2021-4BA25

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4BA25

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4BA25

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

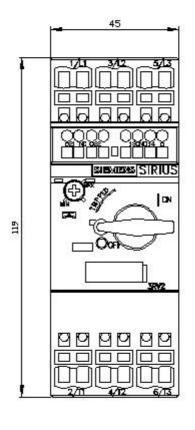
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4BA25&lang=en

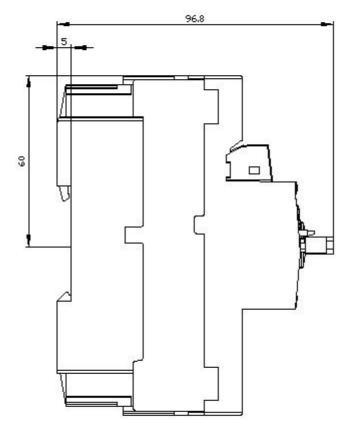
Characteristic: Tripping characteristics, I²t, Let-through current

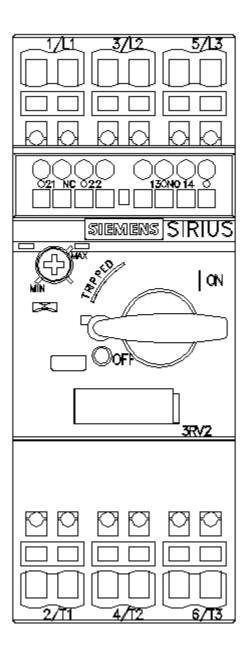
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4BA25/char

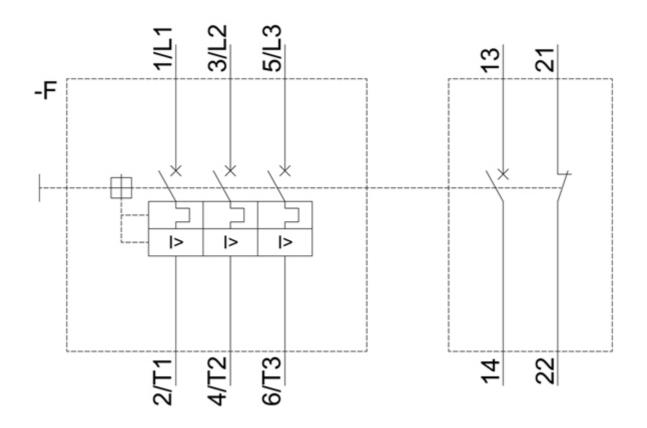
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4BA25&objecttype=14&gridview=view1









last modified:

12/15/2020 🖸