SIEMENS

Data sheet

3RV2021-4AA25



Circuit breaker size S0 for motor protection, CLASS 10 A-release 10...16 A N-release 208 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 	9.25 W
 at AC in hot operating state per pole 	3.1 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
mechanical service life (operating cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
electrical endurance (operating 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 according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
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	10 16 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	16 A
operational current	

• # AC-3e # 400 Vrited value16 Aoperating power		10.1
operating prover 4 kW - al 230 V falled value 4 kW - al 400 V falled value 7.5 kW - al 430 V falled value 7.5 kW - al 430 V falled value 7.5 kW - al 430 V falled value 1 kW - al 430 V falled value 4 kW - al 430 V falled value 4 kW - al 430 V falled value 7.5 kW - al 430 V falled value 1 kW operating frequency 5.1 h • (4.6.2 maximu 15 /h • (4.6.2 maximu 15 /h Auting of read 6.6 kP monthem number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 out 20 V 0.5 A out 20 V radid value 0.5 A out 20 V	• at AC-3 at 400 V rated value	16 A
• At AC-3- at 400 V rade Value7.5 kW- at 600 V rade Value7.5 kW- at 600 V rade Value7.5 kW- at 600 V rade Value1 kW- at 620 V rade Value4 kW- at 620 V rade Value7.5 kW- at 620 V rade Value7.5 kW- at 620 V rade Value7.5 kW- at 630 V rade Value15 th- at 630 V rade Value15 th- at 630 V rade Value10 kmoperating frequency1- at 630 O rade Value1- at 630 V rade Value1- at 720 V rade Value1- at 720 V rade Value0- at 720 V0.5 A- at 720 V rade Value0.5 A		16 A
at 200 v radic value 4 kW at 600 V radic value 7 5 kW at 600 V radic value 1 kW at 600 V radic value 5 kW at 200 V radic value 4 kW at 200 V radic value 4 kW at 200 V radic value 5 kW at 200 V radic value 7 5 kW		
- at 400 V rade value7 5 KW- at 500 V rade value11 KW- at 500 V rade value4 KW- at 220 V rade value4 KW- at 400 V rade value7 5 KW- at 600 V rade value7 5 KW- at 600 V rade value7 5 KW- at 600 V rade value11 KWoparating fragmency at 600 V rade value15 1/h- at 600 V rade value15 1/h- at 600 V rade value16 1/hAuchary arcent1Contracts for auxiliary contacts1number of NC contacts for auxiliary contacts1- at 22 V05 Aoparating fragmency05 A- at 22 V05 A- at 22 V05 Aoparational current of auxiliary contacts at DC-13- at 23 V1A- at 24 V05 A- at 20 V rade value10 V A- at 20 V rade value10 V A- at 20 V rade value10 V A- at 20 V rade value25 KA- at 20 V rade value10 V A- at 20 V rade value10 V A- at 20 V rade value <td< td=""><td></td><td></td></td<>		
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• alt AC-3e alt 200 Vrated value4 KW- alt 400 Vrated value7.5 KW- alt 600 Vrated value7.5 KW- alt 600 Vrated value15 t/n- alt 600 Vrated value15 t/n- alt AC-3e maximum15 t/n- alt AC-3e maximum10 t/n- alt AC-3e maximum20 A- alt 20 Vrated value contacts alt AC-15 alt 20 Vrated value contacts alt AC-15-	— at 500 V rated value	7.5 kW
- al 230 V rated vaue4 kW- al 400 V rated vaue7.5 kW- al 600 V rated vaue7.5 kW- al 600 V rated vaue11 kW- al 600 V rated vaue15 ln- al 600 V rated vaue15 ln- al AC-3 maximum15 ln- al AC-3 maximum15 ln- al AC-3 maximum10 ln- al AC-3 maximum10 ln- al AC-3 maximum10 ln- al AC-3 maximum10 ln- al AC-3 maximum5 ln- anumber of NC contacts for auxiliary contacts1- number of NC contacts for auxiliary contacts1- anumber of NC contacts for auxiliary contacts0- operational current of auxiliary contacts at AC-152- al 230 V0.5 A- al 230 V0.5 A- al 230 V0.5 A- al 240 V rated value0.5 A- al 240 V rated value0.5 A- al 250 V0.5 A- operational current of auxiliary contacts at DC-13- al 260 V0.5 A- al 260 V0.5 A- al 260 V0.5 A- al 260 V0.5 A- al 260 V rated value0.5 A- al 260 V rated value10.5 A- al 260 V rated value5 SA- al 260 V rated value10.6 A- al 26	— at 690 V rated value	11 kW
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- at 690 Y rate vaue7 5 kW- at 690 Y rate vaue1 kWoperating frequency1 kW- at 640 Y rate vaue15 thAuxiliary context15 thAuxiliary contexts for a uxiliary contexts1design of the auxiliary contexts1number of NG contexts for auxiliary contexts0operating frequency2 A- at 240 Y rate value0.5 Aoperating frequency0.5 A- at 230 Y0.5 A- at 240 Y0.5 Aoperating frequency1 A- at 240 Y0.5 Aoperating frequency0.5 Aoperating frequency0.6 Aoperating frequency0.6 Aoperating frequency0.6 Aoperating frequency0.6 Aoperating frequency0.6 Aoperating frequency </td <td>— at 230 V rated value</td> <td>4 kW</td>	— at 230 V rated value	4 kW
	— at 400 V rated value	7.5 kW
operating frequency 4.AC-3 maximum • at AC-3 maximum 15 1/h • at AC-3 maximum 15 1/h design of the auxiliary switch transverse number of KC contacts for auxiliary contacts 1 number of KC contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 0 • at 24 V 0.5 A • at 25 V 0.5 A • at 25 V 0.5 A • at 26 V 0.5 A • at 26 V 0.5 A • at 27 V 0.5 A • at 28 V 0.5 A • at 24 V 1.A • at 24 V 0.5 A • at 25 V 0.5 A • at 24 V 1.A • at 24 V tand value	— at 500 V rated value	7.5 kW
i at AC3 maximum15 /hAtC3e maximum15 /hAuxilary circuits1Auxilary circuits1Auxilary circuits1number of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts0operational current of auxiliary contacts at AC-151• at 24 V2 Å• at 125 V0 5 Å• at 125 V0 5 Å• at 230 V0 5 Å• at 24 V1 Å• at 25 V0 5 Å• at 60 V0.15 ÅProduct functionVes• at 60 V0.15 ÅProduct functionVes• at 60 V0.00 KÅ• at 60 V rated value100 KÅ• at AC at 600 V rated value5 ÅA• at AC at 600 V rated value5 ÅA• at AC at 600 V rated value100 KÅ• at AC at 600 V rated value5 ÅA• at AC at 600 V rated value5 ÅA• at 600 V rated value5 ÅA• at 600 V rated value10 Å• at 600 V rated value10 ÅA• at 600 V rated value <td>— at 690 V rated value</td> <td>11 kW</td>	— at 690 V rated value	11 kW
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design of the overload release thermal maximum short-circuit current breaking capacity (Icu) i • at AC at 24 0V rated value 100 kA • at AC at 400 V rated value 55 kA • at AC at 500 V rated value 4 kA operating short-circuit current breaking capacity (Ics) at AC 4 kA • at AC at 690 V rated value 100 kA • at AC at 400 V rated value 100 kA • at AC at 400 V rated value 100 kA • at 400 V rated value 100 kA • at 400 V rated value 25 kA • at 690 V rated value 25 kA • at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 208 A UL/CSA ratings 101 kA full-load current (FLA) for 3-phase AC motor 16 A • at 600 V rated value 16 A • at 600 V rated value 16 A • at 600 V rated value 2 hp • for single-phase AC motor 1 hp - at 200/208 V rated value 2 hp • for 3-phase AC motor 3 hp - at 200/208 V rated value 5 hp - at 200/208 V rated value 5 hp		
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operating short-circuit current breaking capacity (Ics) at AC• at 240 V rated value100 kA• at 400 V rated value25 kA• at 500 V rated value5 kA• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit208 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value16 A• at 600 V rated value16 A• at 600 V rated value16 A• at 200 V rated value16 A• for single-phase AC motor1 hp- at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor3 hp- at 200/208 V rated value3 hp- at 200/208 V rated value5 hp- at 460/480 V rated value10 hp		
• at 240 V rated value100 kA• at 400 V rated value25 kA• at 500 V rated value5 kA• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit208 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value16 A• at 480 V rated value16 A• at 600 V rated value16 A• at 600 V rated value1 hp- at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value3 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hp		4 kA
• at 400 V rated value25 kA• at 500 V rated value5 kA• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit208 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value16 A• at 600 V rated value16 Ayielded mechanical performance [hp]• for single-phase AC motor- at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor- at 200/208 V rated value3 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hp		
• at 500 V rated value5 kA• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit208 AUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value16 A• at 600 V rated value2 hp• for single-phase AC motor1 hp- at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor2 hp- at 200/208 V rated value3 hp- at 220/230 V rated value5 hp- at 600/480 V rated value10 hp		
• at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 208 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 16 A • at 600 V rated value 16 A • at 600 V rated value 16 A vielded mechanical performance [hp] • for single-phase AC motor - at 110/120 V rated value 1 hp - at 230 V rated value 2 hp • for 3-phase AC motor 2 hp - at 200/208 V rated value 3 hp - at 220/230 V rated value 5 hp - at 460/480 V rated value 10 hp		
response value current of instantaneous short-circuit trip unit 208 A UL/CSA ratings 1000000000000000000000000000000000000		
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 16 A • at 600 V rated value 16 A • at 600 V rated value 16 A yielded mechanical performance [hp] • • for single-phase AC motor 1 hp - at 110/120 V rated value 1 hp - at 230 V rated value 2 hp • for 3-phase AC motor 3 hp - at 200/208 V rated value 5 hp - at 460/480 V rated value 10 hp		
full-load current (FLA) for 3-phase AC motor• at 480 V rated value16 A• at 600 V rated value16 Ayielded mechanical performance [hp]16 A• for single-phase AC motor- at 110/120 V rated value- at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor- at 200/208 V rated value- at 200/208 V rated value3 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hp		208 A
• at 480 V rated value16 A• at 600 V rated value16 A yielded mechanical performance [hp] 16 A• for single-phase AC motor at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value3 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hp	UL/CSA ratings	
• at 600 V rated value16 Ayielded mechanical performance [hp]Image: For single-phase AC motor- at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp]• for single-phase AC motor at 110/120 V rated value1 hp at 230 V rated value• for 3-phase AC motor at 200/208 V rated value at 200/208 V rated value3 hp at 220/230 V rated value5 hp at 460/480 V rated value10 hp	• at 480 V rated value	16 A
 for single-phase AC motor - at 110/120 V rated value - at 230 V rated value 2 hp for 3-phase AC motor - at 200/208 V rated value 3 hp - at 220/230 V rated value 5 hp - at 460/480 V rated value 10 hp 	• at 600 V rated value	16 A
at 110/120 V rated value1 hp at 230 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value at 200/208 V rated value3 hp at 220/230 V rated value5 hp at 460/480 V rated value10 hp	yielded mechanical performance [hp]	
at 230 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value at 200/208 V rated value3 hp at 220/230 V rated value5 hp at 460/480 V rated value10 hp	 for single-phase AC motor 	
for 3-phase AC motor	— at 110/120 V rated value	1 hp
	— at 230 V rated value	2 hp
- at 460/480 V rated value 10 hp	 for 3-phase AC motor 	
- at 460/480 V rated value 10 hp		3 hp
	- at 200/208 V rated value	
contact rating of auxiliary contacts according to UL C300 / R300	– at 200/208 V rated value — at 220/230 V rated value	5 hp
Short-circuit protection	– at 200/208 V rated value — at 220/230 V rated value	5 hp

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 gL/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 400 V	gL/gG 63 A			
• at 500 V	gL/gG 50 A			
• at 690 V	gL/gG 40 A			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height	119 mm			
width	45 mm			
depth	97 mm			
required spacing				
 with side-by-side mounting at the side 	0 mm			
 for grounded parts at 400 V 				
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
• for live parts at 400 V				
— downwards	30 mm			
— upwards	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	00			
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 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			
— upwards	50 mm			
— backwards	0 mm			
— at the side	30 mm			
— forwards	0 mm			
Connections/ Terminals				
type of electrical connection				
for main current circuit	spring-loaded terminals			
 for auxiliary and control circuit 	spring-loaded terminals			
arrangement of electrical connectors for main current	Top and bottom			
circuit				
type of connectable conductor cross-sections				
for main contacts				
— solid or stranded	2x (1 10 mm²)			
 finely stranded with core end processing 	2x (1 6 mm ²)			
 finely stranded without core end processing 	2x (1 6 mm ²)			
for 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 stran	ded with core end processing	2x (0.5 1.5 mm²)			
-	ded without core end processi		0.5 1.5 mm²)			
	for auxiliary contacts		20 14)			
design of screwdriver	r shaft	Diar	neter 3 mm			
size of the screwdrive	er tip	3,0	x 0,5 mm			
Safety related data						
B10 value						
 with high deman 	d rate according to SN 31920	5 00	00			
proportion of dangero	ous failures					
 with low demand 	I rate according to SN 31920	50 %	50 %			
 with high deman 	d rate according to SN 31920	50 %	6			
failure rate [FIT]						
 with low demand 	I rate according to SN 31920	50 F	TIT			
T1 value for proof test i 61508	interval or service life accordin	g to IEC 10 a	1			
protection class IP on	the front according to IEC 6	60529 IP20)			
touch protection on th	he front according to IEC 60	529 finge	er-safe, for vertical contact	from the front		
display version for swite	ching status	Han	dle			
Certificates/ approvals						
General Product App	roval				For use in hazard- ous locations	
<u>Confirmation</u>		(U) JI	KC	EHC	K ATEX	
For use in hazard- ous locations	Declaration of Conformity	<i>,</i>	Test Certificates		Marine / Shipping	
IECEx IECEx	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS	
Marine / Shipping					other	
BUREAU VERITAS		Lloyd's Register us	PRS	RINA	<u>Confirmation</u>	
other	Railway					
	<u>Vibration and Shock</u>	<u>Confirmation</u>				

Further information

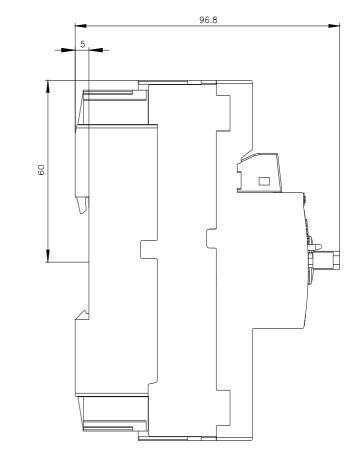
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://ww .com/ic10 sieme Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2021-4AA25 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4AA25 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

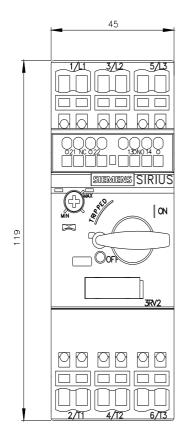
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4AA25

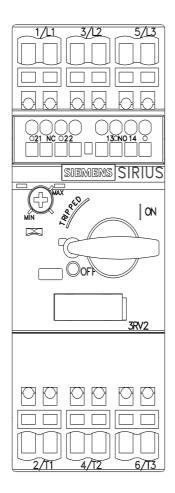
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4AA25&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4AA25/c

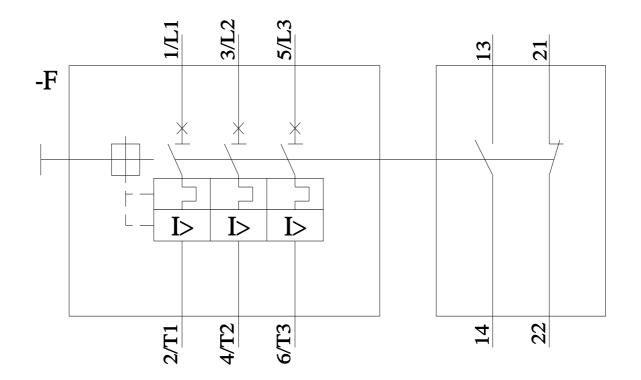
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Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4AA25&objecttype=14&gridview=view1









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