SIEMENS

Data sheet 3RV2021-4CA20



Circuit breaker size S0 for motor protection, CLASS 10 A-release 16...22 A N-release 286 A Spring-type terminal Standard 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	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	
shock resistance according 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 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	16 22 A	
operating voltage		
• rated value	20 690 V	
 at AC-3 rated value maximum 	690 V	
 at AC-3e rated value maximum 	690 V	

operational current rated value operational current 22 A 4	operating frequency rated value	50 60 Hz
operating power		
at AC-3 at 400 V rated value	•	
e at AC-2e at 400 V rated value → at AC-2 → at 200 V rated value → at 600	•	22 A
Operating power		
		227
at 230 V rated value		
		5.5 KW
■ at AC-3e ■ at 230 V rated value ■ at 230 V rated value ■ at 420 V rated value ■ at 590 V rated value ■ at 680 V rated value ■ at 680 V rated value ■ at AC-3e maximum ■ a		
		10.5 KVV
		5 5 I/W
operating frequency		
operating frequency		
at AC-3 maximum at AC-3 maximum ber of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 product function e-ground fault detection phase failure detection yes design of the overload release breaking capacity maximum short-circuit current (icu) at AC at 240 V rated value at AC at 400 V rated value breaking capacity operating short-circuit current (ics) at AC at 690 V rated value breaking capacity operating short-circuit current (ics) at AC at 400 V rated value breaking capacity operating short-circuit current (ics) at AC at 400 V rated value breaking capacity operating short-circuit current (ics) at AC at 240 V rated value breaking capacity operating short-circuit current (ics) at AC at 400 V rated value 25 kA at 400 V rated value 25 kA 286 A 10 L/CSA ratings full-load current (FLA) for 3-phase AC motor at 690 V rated value at 600 V rated value at 600 V rated value 7.5 hp at 600 V rated value at 600 V rated value at 600 V rated value 7.5 hp at 600 V rated value 15 hp Short-circuit protection product function short circuit protection 4 kgs Short-circuit protection product function short circuit protection 4 kgs Magnetic 4 design of the fuse link for IT network for short-circuit protection design of the fuse link for IT network for short-circuit protection for the main circuit breathers 15 l/h 15 l/h 16 short-circuit trip design of the fuse link for IT network for short-circuit protection for the main circuit breathers 15 l/h 16 short-circuit protection product function short circuit protection for the main circuit breathers 16 l/c AC		18.5 KVV
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number of NO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 protective and monitoring functions product function • ground fault detection No • ground fault detection Yes trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 3500 V rated value • at AC at 3690 V rated value • at AC at 3690 V rated value • at AC at 460 V rated value • at 4AC at 460 V rated value • at 400 V rated value • at 480 V rated value • at 480 V rated value • at 400 V rated value • for 3-phase AC motor • at 480 V rated value • for 3-phase AC motor • at 220 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • for 3-phase AC mot		
number of CO contacts for auxiliary contacts product function ground fault detection phase failure detection product such as a failure detection product such as a failure detection phase failure detection phase failure detection phase failure detection product function (CLASS 10 CLASS 10 design of the overload release thermal breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 550 V rated value at AC at 550 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 400 V rated value at 600 V rated value at 800 V rated value at 800 V rated value 22 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value for 3-phase AC motor at 200/208 V rate		
Protective and monitoring functions product function • ground fault detection • phase failure detection * phase failure detection * yes CLASS 10 thermal 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 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 40 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 55 kA 100 kA 25 kA 26 kA 27 kA 286 A *** *** *** *** *** *** ***		
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at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value breaking capacity operating short-circuit current (Ics) at AC at 600 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 600 V rated value at 600 V rated value 2 kA 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 22 A at 600 V rated value 22 A in at 600 V rated value 22 A yielded mechanical performance [hp] of or single-phase AC motor — at 110/120 V rated value 1.5 hp — at 230 V rated value 3 hp of or 3-phase AC motor — at 200/208 V rated value 3 hp — at 220/230 V rated value 7.5 hp — at 460/480 V rated value 15 hp Short-circuit protection product function short circuit protection design of the fuse link for IT network for short-circuit protection of the main circuit	breaking capacity maximum short-circuit current (Icu)	
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at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 5 kA at 500 V rated value breaking capacity operating short-circuit trip at 5 kA at 500 V rated value breaking capacity operating short-circuit trip at 5 kA at 690 V rated value breaking capacity operating short-circuit trip at 6 capacity operating short-circuit operat	 at AC at 400 V rated value 	55 kA
breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • 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 22 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value •	 at AC at 500 V rated value 	10 kA
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at 400 V rated value at 500 V rated value standard 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 standard response AC motor for single-phase AC motor - at 110/120 V rated value - at 230 V rated value - at 230 V rated value - at 200/208 V rated value - at 200/208 V rated value - at 200/208 V rated value - at 460/480 V rated value - at 460 V rated value - at 50 V rated va		
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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 22 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1.5 hp — at 230 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 1.5 hp - at 220/230 V rated value 7.5 hp — at 220/230 V rated value 7.5 hp — at 460/480 V rated value 15 hp Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit	 at 500 V rated value 	5 kA
unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 22 A • at 600 V rated value 22 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1.5 hp — at 230 V rated value 3 hp • for 3-phase AC motor — at 200/208 V rated value 7.5 hp — at 220/230 V rated value 7.5 hp — at 460/480 V rated value 15 hp Short-circuit protection 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 690 V rated value	2 kA
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 1.5 hp — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value 1.5 hp — at 220/230 V rated value 7.5 hp — at 460/480 V rated value 15 hp Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit	'	286 A
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at 600 V rated value yielded mechanical performance [hp] 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 — at 460/480 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit		
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 3 hp • for 3-phase AC motor — at 200/208 V rated value 7.5 hp — at 220/230 V rated value 7.5 hp — at 460/480 V rated value 15 hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic design of the fuse link for IT network for short-circuit protection of the main circuit		
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value		22 A
- at 110/120 V rated value - at 230 V rated value 3 hp • for 3-phase AC motor - at 200/208 V rated value 7.5 hp - at 220/230 V rated value 7.5 hp - at 460/480 V rated value 15 hp Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit		
- at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value 7.5 hp - at 220/230 V rated value 7.5 hp - at 460/480 V rated value 15 hp Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit		
for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value Short-circuit protection		·
- at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit magnetic		3 hp
- at 220/230 V rated value - at 460/480 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit	·	
— at 460/480 V rated value 15 hp Short-circuit protection 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		·
Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit		
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit Yes magnetic		15 hp
design of the short-circuit trip magnetic design of the fuse link for IT network for short-circuit protection of the main circuit	Short-circuit protection	
design of the fuse link for IT network for short-circuit protection of the main circuit	product function short circuit protection	Yes
protection of the main circuit		magnetic
• at 400 v		1/ 0.00 A
	● at 400 V	gL/gG 63 A

a at 500 V	al /aC 50 A
• at 500 V	gL/gG 50 A
• at 690 V	gL/gG 50 A
Installation/ mounting/ dimensions	ony
mounting position fastening method	any screw and snap-on mounting onto 35 mm standard mounting rail
	according to DIN EN 60715
height	119 mm
width	45 mm
depth	97 mm
required spacing	
for grounded parts at 400 V	22
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	20
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 500 V downwards 	30 mm
— downwards — upwards	30 mm
— upwards — at the side	9 mm
• for live parts at 500 V	9 111111
— 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
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 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)
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 according to SN 31920	5 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	50 %
with high demand rate according to SN 31920	50 %
failure rate [FIT]	
with low demand rate according to SN 31920	50 FIT
T1 value for proof test interval or service life according to	10 y

IEC 61508 IP20 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front display version for switching status Handle

Certificates/ approvals

General Product Approval



Confirmation





KC



For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







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

Type Test Certificates/Test Report



Marine / Shipping













other

Railway

Confirmation



Confirmation

Vibration and Shock

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=3RV2021-4CA20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4CA20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4CA20

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb:

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4CA20/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4CA20&objecttype=14&gridview=view1

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