SIEMENS

Data sheet 3RV2021-1EA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 2.8...4 A N release 52 A screw 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 	7.25 W	
at AC in hot operating state per pole	2.4 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	2.8 4 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	operating frequency rated value	E0
Operating power	operating frequency rated value	50 60 Hz
operating power at A230 V rated value 1.5 kW 1.5	·	
	•	4 //
at 400 V rated value		0.8 kW
at 500 V rated value		
		3 KVV
		0.8 kW
— at 500 V rated value 3 kW operating frequency • at AC-3 maximum 15 1/h • at AC-3 maximum 15 1/h Auxiliary circuit number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 product function • ground faut detection Yes trip class CLASS 10 design of the overload release themal breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value 100 kA • at AC at 360 V rated value 6 kA proaking capacity operating short-circuit current (Ics) at AC at 360 V rated value 100 kA • at AC at 360 V rated value 4 kA proaking capacity operating short-circuit current (Ics) at AC at 360 V rated value 100 kA • at 400 V rated value 100 kA • at 600 V rated value 100		
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number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CC contacts for auxiliary contacts number of CC contacts for auxiliary contacts product function	at AC-3e maximum	
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CC contacts for auxiliary contacts number of CC contacts for auxiliary contacts product function		
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts product function		0
number of CO contacts for auxiliary contacts Protective and monitoring functions product function ground fault detection phase failure detection phase failure detection product function ground fault detection phase failure detection Yes CLASS 10 thermal CLASS 10 thermal Draking 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 500 V rated value at 40 V rated value at 40 V rated value at 500 V rated value at 600 V rated value at 800 V rated value at 600 V rated value at 600 V rated value at 800 V rated value broad value at 100 V rated value at 100 V rated value at 100 V rated value at 200 V rated value broad value at 200 V rated value at 400 V rated value at 200 V rated value at 575/600 V rated value	-	
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■ 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 ■ at 240 V rated value ■ at 240 V rated value ■ at 240 V rated value ■ at 500 V rated value ■ at 690 V rated value ■ at 80 V rated value ■ at 480 V rated value ■ at 480 V rated value ■ at 480 V rated value ■ at 110/120 V rated value ■ at 110/120 V rated value ■ at 220 V rated value ■ at 220 V rated value ■ at 220/230 V rated value ■ at 220/230 V rated value ■ at 480/480 V rated value □ at 575/600 V rated value □ at 575/600 V rated value □ at 690/480 V rated value □ at 480/480 V rated value □ at 575/600 V rated value □ at 480/480 V rated value □ at 480/480 V rated value □ at 480/480 V rated value □ at 575/600 V rated value □ at 575/600 V rated value □ at 575/600 V rated value □ at 690/480 V rated value □ at 690/480 V rated value □ at 575/600 V rated value □ at 575/600 V rated value □ at 690/480 V rated value □ at 575/600 V rated value □ at 575/600 V rated value □ at 690/480 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 240 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value briefly and for single-phase AC motor at 110/120 V rated value at 230 V rated value at 220/230 V rated value at 220/230 V rated value at 250/280 V rated value at 250/500 V rated value at 250/600 V rated value at 575/600 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value yes brout-circuit protection product function short-circuit trip installation/ mounting/ dimensions mounting position fastening method any screw and snap-on mounting onto 35 mm standard mounting rail		100 kA
at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 240 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 at 230 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 460/480 V rated value at 575/600 V rated value at 575/600 V rated value at 755/600 V rated V	• at AC at 400 V rated value	100 kA
breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 800 V rated value • at 800 V rated value • at 800 V rated value • at 600 V rated value • at 200 V rated value • 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 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 800 V rated val	• at AC at 500 V rated value	100 kA
at AC at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value 4 kA response value current of instantaneous short-circuit trip unit LL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 4 A at 600 V rated value 4 A at 600 V rated value 4 A installation/ mounting / value 0.13 hp 0.75 hp at 220/230 V rated value 0.75 hp magnetic short-circuit protection product function short circuit trip mounting position fastening method at 2500 V rated value and 35 hm standard mounting rail and fastening method 100 kA 100 k 100 k 100 k 100	• at AC at 690 V rated value	6 kA
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at 500 V rated value at 690 V rated value tesponse 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 for single-phase AC motor at 110/120 V rated value at 230 V rated value of or 3-phase AC motor at 230 V rated value of at 220/230 V rated value at 200/208 V rated value at 200/208 V rated value at 2575/600 V rated value at 575/600 V rated value at 575/600 V rated value at 680/480 V rated value at 2575/600 V rated value at 680/480 V	• at 240 V rated value	100 kA
at 500 V rated value at 690 V rated value tesponse 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 for single-phase AC motor at 110/120 V rated value at 230 V rated value of or 3-phase AC motor at 230 V rated value of at 220/230 V rated value at 200/208 V rated value at 200/208 V rated value at 2575/600 V rated value at 575/600 V rated value at 575/600 V rated value at 680/480 V rated value at 2575/600 V rated value at 680/480 V	• at 400 V rated value	100 kA
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		
unit UL/CSA ratings 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 — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value product function short circuit protection product function short circuit protection product function short circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail		
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 • for single-phase AC motor — at 230 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 • at 220/230 V rated value — at 220/330 V rated value — at 460/480 V rated value — at 575/600 V rated value Tyes design of the short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail	·	52 A
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 • for 3-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value product function short circuit protection product function short circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail		
• at 480 V rated value • 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 — 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 — at 575/600 V rated value — at 575/600 V rated value Description product function short circuit protection product function short circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4		
• 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 420/480 V rated value — at 460/480 V rated value — at 575/600 V rated value 2 hp — at 575/600 V rated value 3 hp Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method 4 A A A A A A A A A A A A A		4 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 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value Tyes Short-circuit protection		
 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 575/600 V rated value bp at 575/600 V rated value at 9hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm standard mounting rail 		
- at 110/120 V rated value 0.13 hp - at 230 V rated value 0.33 hp ● for 3-phase AC motor - at 200/208 V rated value 0.8 hp - at 220/230 V rated value 0.75 hp - at 460/480 V rated value 2 hp - at 575/600 V rated value 3 hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method 0.13 hp 0.33 hp 4.8 p 4.8 p 4.9 p 5.8 p 6.9 p 6.		
- 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 575/600 V rated value 3 hp Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method 0.3 hp 0.75 hp 2 hp 3 hp Yes magnetic		0.13 hp
for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — by the short-circuit protection Product function short circuit protection Yes		·
- at 220/230 V rated value 0.75 hp - at 460/480 V rated value 2 hp - at 575/600 V rated value 3 hp Short-circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm standard mounting rail	• for 3-phase AC motor	
- at 460/480 V rated value 2 hp - at 575/600 V rated value 3 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm standard mounting rail	— at 200/208 V rated value	0.8 hp
— at 575/600 V rated value 3 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm standard mounting rail	— at 220/230 V rated value	0.75 hp
Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method Tyes magnetic any screw and snap-on mounting onto 35 mm standard mounting rail	— at 460/480 V rated value	2 hp
product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method Yes magnetic any screw and snap-on mounting onto 35 mm standard mounting rail	— at 575/600 V rated value	3 hp
design of the short-circuit trip magnetic Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm standard mounting rail	Short-circuit protection	
Installation/ mounting/ dimensions mounting position fastening method any screw and snap-on mounting onto 35 mm standard mounting rail		Yes
mounting position any fastening method screw and snap-on mounting onto 35 mm standard mounting rail	design of the short-circuit trip	magnetic
fastening method screw and snap-on mounting onto 35 mm standard mounting rail	Installation/ mounting/ dimensions	
fastening method screw and snap-on mounting onto 35 mm standard mounting rail		any
according to DIN EN 60715		
		according to DIN EN 60715

height	97 mm
width	45 mm
depth	97 mm
required spacing	97 111111
• for grounded parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	3 111111
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
at the side for grounded parts at 500 V	9 111111
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 500 V	20
— downwards	30 mm
— upwards	GG 7
— at the side	9 mm
• for grounded parts at 690 V	F0
— 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	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 2.5 mm²), 2x (2.5 10 mm²)
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
at AWG cables for main contacts	2x (16 12), 2x (14 8)
tightening torque	
for main contacts with screw-type terminals	2 2.5 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
for main contacts	M4
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	,
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front

Handle

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



For use in hazardous locations

Declaration of Conformity

Test Certificates









Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













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=3RV2021-1EA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-1EA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1EA10

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-1EA10\&lang=en}}$

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1EA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-1EA10&objecttype=14&gridview=view1

last modified:

6/25/2022