SIEMENS

Data sheet

3RV2021-4DA10-0BA0



Special type Circuit breaker size S0 for motor protection, CLASS 10 A-release 18...25 A N-release 325 A Screw terminal Standard switching capacity Ambient temperature -50 $^\circ$ C 500 switching cycles

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 	500					
 of auxiliary contacts typical 	500					
electrical endurance (switching cycles) typical	500					
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 	-50 +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	18 25 A					
operating voltage						
rated value	20 690 V					
 at AC-3 rated value maximum 	690 V					
operating frequency rated value	50 60 Hz					
operational current rated value	25 A					
operational current						
• at AC-3 at 400 V rated value	25 A					
operating power						

• at AC-3			
— at 230 V rated value	5.5 kW		
— at 400 V rated value	11 kW		
— at 500 V rated value	15 kW		
— at 690 V rated value	22 kW		
operating frequency			
• at AC-3 maximum	15 1/h		
Auxiliary circuit			
number of NC contacts for auxiliary contacts	0		
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		
phase failure detection	Yes		
trip class	CLASS 10		
design of the overload release	thermal		
breaking capacity maximum short-circuit current (Icu)			
 at AC at 240 V rated value 	50 kA		
 at AC at 400 V rated value 	50 kA		
• at AC at 500 V rated value	10 kA		
• at AC at 690 V rated value	4 kA		
breaking capacity operating short-circuit current (lcs)			
at AC • at 240 V rated value	25 kA		
at 240 V rated value	25 kA		
at 500 V rated value	5 kA		
at 690 V rated value	2 kA		
response value current of instantaneous short-circuit trip	325 A		
unit	525 A		
Short-circuit protection			
Short-circuit protection product function short circuit protection	Yes		
	Yes magnetic		
product function short circuit protection	magnetic		
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-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 • at 400 V • at 500 V	magnetic gG 63 A gG 50 A		
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 400 V • at 500 V • at 690 V	magnetic gG 63 A		
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 400 V • at 500 V	magnetic gG 63 A gG 50 A		
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 400 V • at 500 V • at 690 V	magnetic gG 63 A gG 50 A		
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 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method	magnetic gG 63 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715		
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 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method	magnetic gG 63 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm		
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 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width	magnetic gG 63 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm		
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 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth	magnetic gG 63 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm		
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 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	magnetic gG 63 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm		
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 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V	magnetic gG 63 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm		
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 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards	magnetic gG 63 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm		
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 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — upwards	magnetic gG 63 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm 30 mm		
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 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side	magnetic gG 63 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm		
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 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — upwards — at the side • for live parts at 400 V	magnetic gG 63 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm 30 mm 9 mm		
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 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — at the side • for live parts at 400 V — at the side • for live parts at 400 V	magnetic gG 63 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm 30 mm 9 mm 30 mm		
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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 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for grounded parts at 500 V	magnetic gG 63 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm 9 mm		
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 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — 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	magnetic gG 63 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm 30 mm 9 mm 30 mm 30 mm 30 mm 30 mm 30 mm		
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 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards	magnetic gG 63 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm 30 mm		
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 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts at 400 V — downwards — 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 — upwards — at the side	magnetic gG 63 A gG 50 A gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 97 mm 45 mm 97 mm 30 mm 30 mm 9 mm 30 mm 30 mm 30 mm 30 mm 30 mm		
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	— upwards			30 mm		
— at the side			9 mm			
 for grounded pa 			50			
— downwards	5		50 mm			
— upwards			50 mm			
— backwards			0 mm			
— at the side — forwards			30 mm			
	COO)/		0 mm			
 for live parts at 			50 mm			
- downwards	5		50 mm			
— upwards			50 mm			
— backwards			0 mm			
— at the side — forwards			30 mm			
	1-		0 mm			
Connections/ Termina		_				
type of electrical cor						
for main current			screw-type terminals			
arrangement of elect circuit	trical connectors for n	nain current	Top and bottom			
	conductor cross-sect	ions				
• for main contact						
 Ior main contact — solid or strain 			2x (1 2.5 mm²), 2x (2.5 10 mm²)			
	ided with core end proc	essina	2x (1 2.5 mm ²), 2x (2.5 2x (1 2.5 mm ²), 2x (2.5			
tightening torque		essing	2.4 (1 2.3 mm), 2.4 (2.5	0 min), 1x 10 min		
	ts with screw-type term	inals	2 2.5 N·m			
	for main contacts with screw-type terminals design of screwdriver shaft		2 2.5 N·m Diameter 5 to 6 mm			
size of the screwdriv			Pozidriv size 2			
	of the connection scr	-OW				
 for main contact 		CW .	M4			
Safety related data						
	tintonyal or convice life y	according to	10 v			
T1 value for proof test interval or service life according to IEC 61508		10 y				
protection class IP on the front according to IEC		to IEC	IP20			
60529		finger cafe, for vertical contact from the front				
touch protection on the front according to IEC 60529 display version for switching status		finger-safe, for vertical contact from the front				
		_	Handle			
Certificates/ approvals						
General Product Ap	proval		Declaration of Co	nformity	Test Certificates	
<u>Confirmation</u>	KC	EHC	CE EG-Konf.		<u>Special Test Certific-</u> <u>ate</u>	
Test Certificates	Marine / Shipping					
<u>Type Test Certific-</u> ates/Test Report	ABS	B UREAU VERITAS		Lloyd's Register urs	PRS	
Marine / Shipping		other		Railway		
RINA	RMRS RMRS	<u>Confirmation</u>		Vibration and Shock	<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=3RV2021-4DA10-0BA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4DA10-0BA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4DA10-0BA0

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

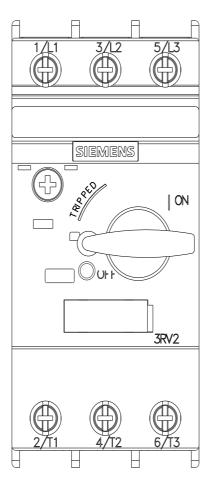
 $\underline{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4DA10-0BA0\&lang=enderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseterenderseter$

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4DA10-0BA0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4DA10-0BA0&objecttype=14&gridview=view1



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