## SIEMENS

## Data sheet

## 3RV2021-4BA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 13...20 A N-release 260 A screw terminal Standard switching capacity

4/17 0/13	
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	SO
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	10.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	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 (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-50 +80 °C
<ul> <li>during transport</li> </ul>	-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	13 20 A
current-dependent overload release	
operating voltage	20 000 1/
rated value     act A C 2 rated value requireum	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	20 A

operational ourrent	
<ul> <li>operational current</li> <li>at AC-3 at 400 V rated value</li> </ul>	20 A
• at AC-3e at 400 V rated value	20 A
operating power	2017
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 kW
• at AC-3e	
— at 230 V rated value	5.5 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e 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 thermal
design of the overload release maximum short-circuit current breaking capacity (Icu)	inerria
at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	55 kA
at AC at 500 V rated value	10 kA
<ul> <li>at AC at 690 V rated value</li> </ul>	4 kA
operating short-circuit current breaking capacity (Ics) at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
<ul> <li>at 400 V rated value</li> </ul>	25 kA
<ul> <li>at 500 V rated value</li> </ul>	5 kA
• at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	260 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	20 A
• at 600 V rated value	20 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> </ul>	1.5 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	5 np
— at 200/208 V rated value	7.5 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 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 400 V	gL/gG 63 A
● at 500 V	gL/gG 50 A
● at 690 V	gL/gG 50 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	97 mm		
width	45 mm		
depth	97 mm		
required spacing	97 mm		
<ul> <li>with side-by-side mounting at the side</li> </ul>	0 mm		
	U THIT		
<ul> <li>for grounded parts at 400 V</li> </ul>	00		
— downwards	30 mm		
— upwards	30 mm		
— at the side	9 mm		
<ul> <li>for live parts at 400 V</li> </ul>			
— downwards	30 mm		
— upwards	30 mm		
— at the side	9 mm		
<ul> <li>for grounded parts at 500 V</li> </ul>			
— downwards	30 mm		
— upwards	30 mm		
— at the side	9 mm		
• for live parts at 500 V			
— downwards	30 mm		
— upwards	30 mm		
— at the side	9 mm		
<ul> <li>for grounded parts at 690 V</li> </ul>			
— downwards	50 mm		
— upwards	50 mm		
— backwards	0 mm		
— at the side	30 mm		
— forwards	0 mm		
<ul> <li>for live parts at 690 V</li> </ul>			
— downwards	50 mm		
— upwards	50 mm		
— backwards	0 mm		
— at the side	30 mm		
— at the side — forwards			
— forwards	30 mm 0 mm		
— forwards Connections/ Terminals			
forwards Connections/ Terminals type of electrical connection	0 mm		
forwards Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current			
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<ul> <li>– forwards</li> <li>Connections/ Terminals</li> <li>type of electrical connection         <ul> <li>for main current circuit</li> <li>arrangement of electrical connectors for main current circuit</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>design of screwdriver shaft</li> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw                  <ul></ul></li></ul></li></ul>	0 mm screw-type terminals Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 5 000 50 % 50 % 50 %		
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<ul> <li>– forwards</li> <li>Connections/ Terminals</li> <li>type of electrical connection         <ul> <li>for main current circuit</li> <li>arrangement of electrical connectors for main current circuit</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>design of screwdriver shaft</li> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw                  <ul></ul></li></ul></li></ul>	0 mm screw-type terminals Top and bottom 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 5 000 50 % 50 % 50 FIT 10 y		

Certificates/ approval	ls				
General Product Ap	oproval				
(SP) CEA	CCC	<u>Confirmation</u>		<u>KC</u>	EHC
For use in hazardou	us locations	Declaration of Con	formity	Test Certificates	
KEx ATEX	IECEx	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
Marine / Shipping					
ABS	BUREAU VERITAS		Lloyd's Register uts	PRS	RINA
Marine / Shipping	other		Railway		
KARS	<u>Confirmation</u>		<u>Confirmation</u>	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=3RV2021-4BA10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4BA10					

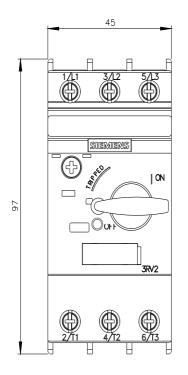
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4BA10

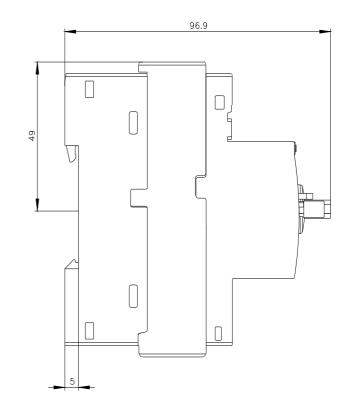
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

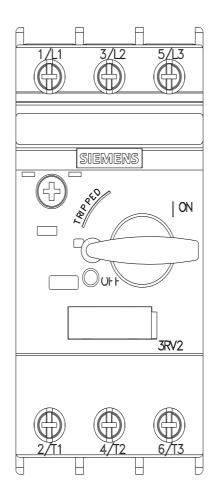
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2021-4BA10&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4BA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4BA10&objecttype=14&gridview=view1

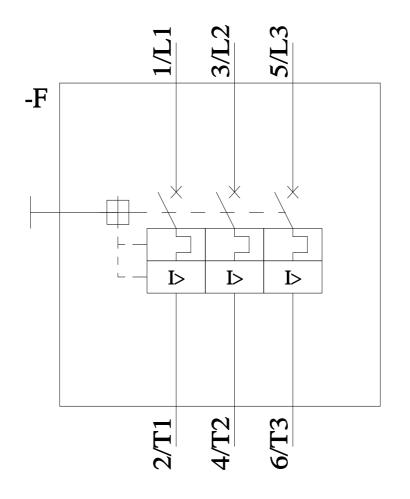






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