## SIEMENS

## Data sheet

## 3RV2021-4BA10



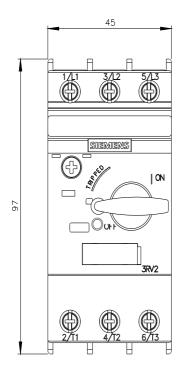
Circuit breaker size S0 for motor protection, CLASS 10 A-release 13...20 A N-release 260 A screw terminal Standard switching capacity

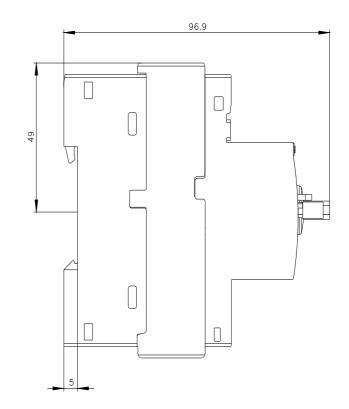
4/12 6/15	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S0
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<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 current-dependent overload release	13 20 A
operating voltage	
<ul> <li>rated value</li> </ul>	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	20 A

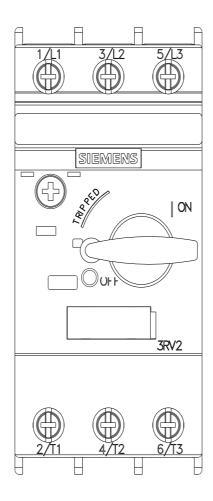
operational current	
at AC-3 at 400 V rated value	20 A
• at AC-3e at 400 V rated value	20 A
operating power	2077
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 kW
• at AC-3e	
— at 230 V rated value	5.5 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 kW
operating frequency	
<ul> <li>at AC-3 maximum</li> </ul>	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	
<ul> <li>ground fault detection</li> </ul>	No
<ul> <li>phase failure detection</li> </ul>	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	55 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	10 kA
• at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (Ics) at AC	
at 240 V rated value	100 kA
at 400 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 unit	260 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	20 A
at 600 V rated value	20 A
yielded mechanical performance [hp]	
for single-phase AC motor	4.5 hz
— at 110/120 V rated value	1.5 hp
— at 230 V rated value	3 hp
<ul> <li>for 3-phase AC motor</li> <li>— at 200/208 V rated value</li> </ul>	7.5 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
Short-circuit protection	
	Yes
product function short circuit protection design of the short-circuit trip	res magnetic
design of the fuse link for IT network for short-circuit protection of the main circuit	nagnoto
• 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				
<ul> <li>with side-by-side mounting at the side</li> </ul>	0 mm			
<ul> <li>for grounded parts at 400 V</li> </ul>	· mm			
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
• for live parts at 400 V	5 1111			
- downwards	30 mm			
— upwards	30 mm			
— upwards — at the side	9 mm			
	311111			
for grounded parts at 500 V	20 mm			
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
• for live parts at 500 V	22			
— 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			
— forwards	0 mm			
	0 mm			
— forwards	0 mm			
— forwards Connections/ Terminals	0 mm screw-type terminals			
— forwards Connections/ Terminals type of electrical connection				
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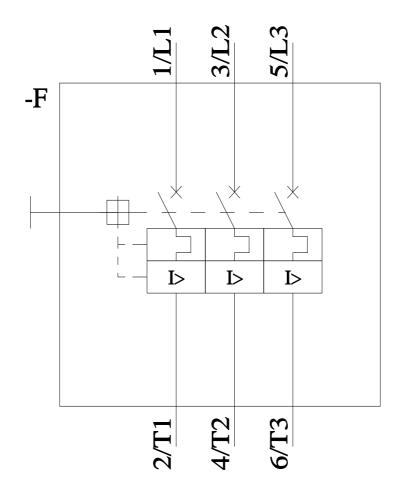
Certificates/ approvals							
General Product App	proval				For use in hazard- ous locations		
CCC	<u>Confirmation</u>		KC	EHC	<b>Ex</b> ATEX		
For use in hazard- ous locations	Declaration of Conf	ormity	Test Certificates		Marine / Shipping		
IECEx	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS		
Marine / Shipping							
BUREAU VERITAS		Llovd's Register urs	PRS	RINA	RMRS		
other		Railway					
<u>Confirmation</u>		<u>Confirmation</u>	Vibration and Shock				
Further information							
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 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⟨=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)							
	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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