## SIEMENS

## Data sheet

## 3RV2021-1HA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 5.5...8 A N-release 104 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	SO				
size of contactor can be combined company-specific					
product extension auxiliary switch	Yes				
power loss [W] for rated value of the current					
<ul> <li>at AC in hot operating state</li> </ul>	9.25 W				
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.1 W				
insulation voltage with degree of pollution 3 at AC rated value	690 V				
surge voltage resistance rated value	6 kV				
maximum permissible voltage for safe isolation in networks with grounded star point					
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V				
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V				
shock resistance acc. to IEC 60068-2-27	25g / 11 ms				
mechanical service life (switching cycles)					
<ul> <li>of the main contacts typical</li> </ul>	100 000				
<ul> <li>of auxiliary contacts typical</li> </ul>	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 acc. to IEC 81346-2	Q				
Substance Prohibitance (Date)	01.10.2009				
Ambient conditions					
installation altitude at height above sea level maximum	2 000 m				
ambient temperature					
<ul> <li>during operation</li> </ul>	-20 +60 °C				
during storage	-50 +80 °C				
during transport	-50 +80 °C				
temperature compensation	-20 +60 °C				
relative humidity during operation	10 95 %				
Main circuit					
number of poles for main current circuit	3				
adjustable current response value current of the	5.5 8 A				

ourrent dependent overland relates	
current-dependent overload release	
operating voltage <ul> <li>rated value</li> </ul>	690 V
rated value	20 690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz 8 A
operational current rated value operational current at AC-3 at 400 V rated value	8A
operating power at AC-3	0 A
at 230 V rated value	1.5 kW
at 400 V rated value	3 kW
at 500 V rated value	4 kW
at 690 V rated value	5.5 kW
operating frequency at AC-3 maximum	15 1/h
Auxiliary circuit	
	0
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 operating short-circuit current (Ics) at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
<ul> <li>at 400 V rated value</li> </ul>	100 kA
• at 500 V rated value	42 kA
<ul> <li>at 690 V rated value</li> </ul>	4 kA
breaking capacity maximum short-circuit current (lcu)	
at AC at 240 V rated value	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	42 kA
<ul> <li>at AC at 690 V rated value</li> </ul>	6 kA
response value current of instantaneous short-circuit trip	104 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	0.4
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul>	8 A 8 A
	0 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> </ul>	0.33 hp
	0.33 hp
— at 230 V rated value	1 hp
for 3-phase AC motor     at 200/208 V rated value	2 hn
- at 200/208 V rated value	2 hp
- at 220/230 V rated value	2 hp
- at 460/480 V rated value	5 hp
- at 575/600 V rated value	5 hp
Short-circuit protection	Voo
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	
mounting position	any seriew and shap on mounting onto 35 mm standard mounting rail
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm

required spacing			
<ul> <li>for grounded parts at 400 V</li> </ul>			
— 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		
— upwards — backwards	0 mm		
— at the side	30 mm		
— at the side — forwards	0 mm		
• for live parts at 690 V	0 mm		
<ul> <li>Ionive parts at 090 v</li> <li>— downwards</li> </ul>	50 mm		
	50 mm		
— upwards — backwards	0 mm		
— at the side	30 mm		
— forwards	0 mm		
Connections/ Terminals			
	No		
product component removable terminal for auxiliary and control circuit	No		
product component removable terminal for auxiliary	No		
product component removable terminal for auxiliary and control circuit	No screw-type terminals		
product component removable terminal for auxiliary and control circuit type of electrical connection			
product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit	screw-type terminals		
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Certificates/ approval	s				
General Product Ap	oproval				
SP CEM		<u>Confirmation</u>	(UL) UL	KC	EAC
For use in hazardou	us locations	Declaration of Con	formity	Test Certificates	
K ATEX	IECEx	CE EG-Konf.	<u>UK Declaration of</u> <u>Conformity</u>	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate
Marine / Shipping					
ABS	BUREAU VERITAS		Llovd's Register urs	PRS	RINA
Marine / Shipping	other		Railway		
KMRS	<u>Confirmation</u>		<u>Confirmation</u>	Vibration and Shock	
Further information Information- and Do <u>https://www.siemens.</u> Industry Mall (Online		ogs, Brochures,)			

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2021-1HA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-1HA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1HA10

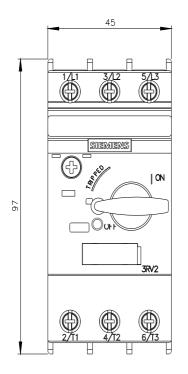
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

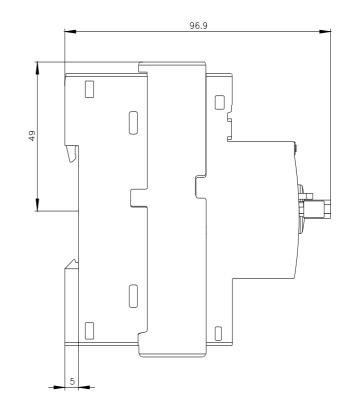
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2021-1HA10&lang=en

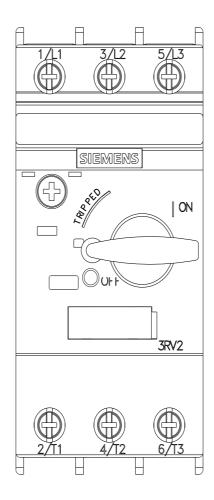
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1HA10/char

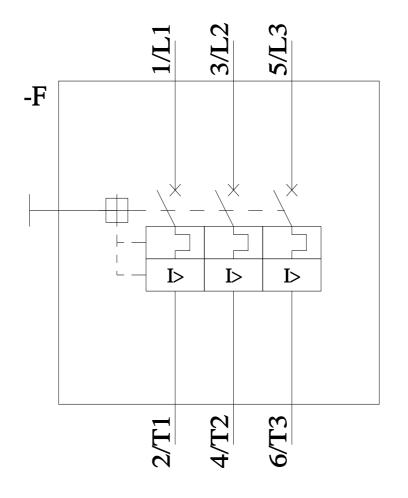
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-1HA10&objecttype=14&gridview=view1







2/14/2022



last modified:

1/27/2022 🖸