SIEMENS

Data sheet 3RV2021-1HA15



Circuit breaker size S0 for motor protection, CLASS 10 A-release 5.5...8 A N-release 104 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

SIRIUS product brand name product designation Circuit breaker design of the product For motor protection product type designation 3RV2 General technical data S0 size of the circuit-breaker 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 9.25 W 3.1 W • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated 690 V 6 kV surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) 100 000 • of the main contacts typical · of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 type of protection according to ATEX directive Ex II (2) GD 2014/34/EU certificate of suitability according to ATEX directive **DMT 02 ATEX F 001** 2014/34/FU reference code according to IEC 81346-2 10/01/2009 **Substance Prohibitance (Date) Ambient conditions** installation altitude at height above sea level maximum 2 000 m ambient temperature -20 ... +60 °C · during operation -50 ... +80 °C · during storage during transport -50 ... +80 °C relative humidity during operation 10 ... 95 % Main circuit number of poles for main current circuit adjustable current response value current of the 5.5 ... 8 A current-dependent overload release operating voltage rated value 20 ... 690 V 690 V • at AC-3 rated value maximum • at AC-3e rated value maximum 690 V operating frequency rated value 50 ... 60 Hz operational current rated value 8 A

operational current	
• at AC-3 at 400 V rated value	8 A
at AC-3e at 400 V rated value	8 A
operating power	
• at AC-3	4.51111
— 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
• at AC-3e	4.51111
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value— at 690 V rated value	4 kW 5.5 kW
	5.5 KVV
operating frequency • at AC-3 maximum	15 1/h
at AC-3 maximum at AC-3e maximum	15 1/h
	13 1/11
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	0.4
• at 24 V	2 A
• at 120 V	0.5 A
at 125 V at 230 V	0.5 A 0.5 A
	0.5 A
operational current of auxiliary contacts at DC-13 • at 24 V	1 A
• at 60 V	0.15 A
Protective and monitoring functions	0.10 A
Projective sino incominantina infrare	
product function	Na
product function • ground fault detection	No Yea
product function	Yes
product function	Yes CLASS 10
product function	Yes
product function	Yes CLASS 10 thermal
product function	Yes CLASS 10 thermal
product function	Yes CLASS 10 thermal 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 44 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 44 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 44 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 kA 42 kA 4 kA 104 A
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 kA 42 kA 4 kA 104 A
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 kA 42 kA 4 kA 104 A
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 42 kA 4 kA 104 A
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 kA 42 kA 4 kA 104 A
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 42 kA 4 kA 104 A 8 A 8 A 0.33 hp 1 hp
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 104 kA 104 A 8 A 8 A 0.33 hp 1 hp 2 hp
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 104 A 8 A 8 A 0.33 hp 1 hp 2 hp 2 hp
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 104 A 8 A 8 A 0.33 hp 1 hp 2 hp 2 hp 5 hp
product function	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 104 A 8 A 8 A 0.33 hp 1 hp 2 hp 2 hp

Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
 for short-circuit protection of the auxiliary switch 	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current
required	Ik < 400 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	0 mm
with side-by-side mounting at the side for grounded parts at 400 V	0 mm
 for grounded parts at 400 V downwards 	30 mm
— upwards	30 mm
— upwards — at the side	9 mm
• for live parts at 400 V	V IIIII
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 500 V	o min
— 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
● for grounded parts at 690 V	
— 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
for auxiliary and control circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
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)
type of connectable conductor cross-sections	
for auxiliary contacts	0 (0 7 4 7 7) 0 (0 77 7 7
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
tightening torque	0. 051
for main contacts with screw-type terminals	2 2.5 N·m
for auxiliary contacts with screw-type terminals	0.8 1.2 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 M4 • for main contacts · of the auxiliary and control contacts M3 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] 50 FIT • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to 10 a protection class IP on the front according to IEC IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front display version for switching status Handle

Certificates/ approvals

General Product Approval

For use in hazardous locations



Confirmation



<u>KC</u>





For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping











Confirmation

other

other

Railway



Confirmation

Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RV2021-1HA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-1HA15

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

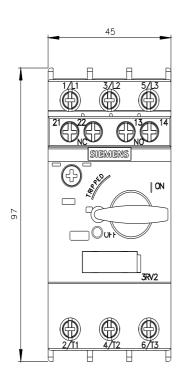
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1HA15

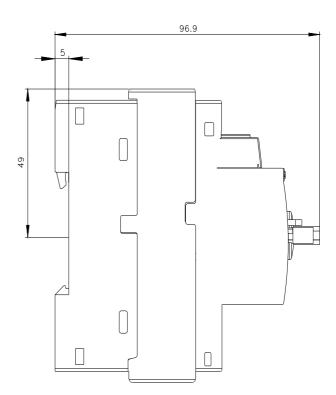
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-1HA15&lang=en

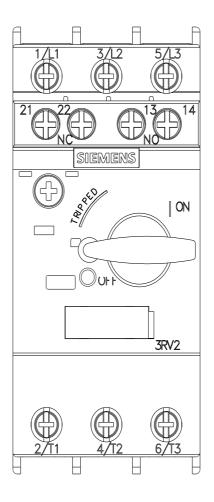
Characteristic: Tripping characteristics, I2t, Let-through current

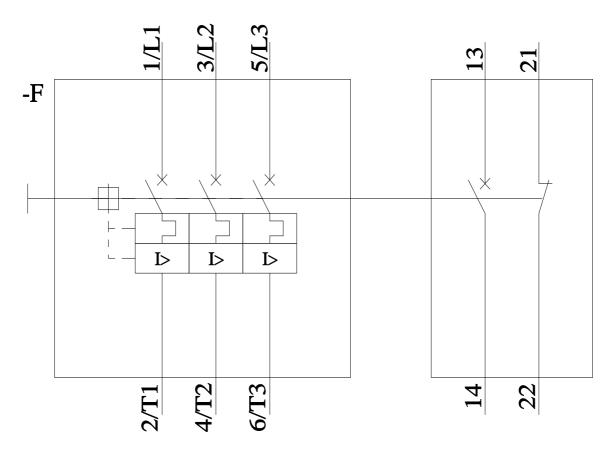
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1HA15/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-1HA15&objecttype=14&gridview=view1









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