SIEMENS

Data sheet 3RV2021-0HA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 0.55...0.8 A N-release 10 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
Seneral 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 	7.25 W
 at AC in hot operating state per pole 	2.4 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	
 between main and auxiliary circuit 	400 V
 between main and auxiliary circuit 	400 V
shock resistance acc. to IEC 60068-2-27	25g / 11 ms
mechanical service life (switching cycles)	
 of the main contacts typical 	100 000
of auxiliary contacts typical	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 00:00:00
ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-20 +60 °C
 during storage 	-50 +80 °C
during transport	-50 +80 °C
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
lain circuit	

number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	0.55 0.8 A
operating voltage	
• rated value	690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.8 A
operational current at AC-3 at 400 V rated value	0.8 A
operating power at AC-3	0.0 A
at 230 V rated value	0.12 kW
at 400 V rated value	0.18 kW
at 500 V rated value	0.25 kW
at 690 V rated value	0.37 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 operating short-circuit current (Ics) at AC	
 at 240 V rated value 	100 kA
 at 400 V rated value 	100 kA
 at 500 V rated value 	100 kA
at 690 V rated value	100 kA
breaking capacity maximum short-circuit current (Icu)	
 at AC at 240 V rated value 	100 kA
 at AC at 400 V rated value 	100 kA
 at AC at 500 V rated value 	100 kA
• at AC at 690 V rated value	100 kA
response value current of instantaneous short-circuit trip	10 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.8 A
• at 600 V rated value	0.8 A
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
height	according to DIN EN 60715
width	45 mm
depth	97 mm
-	<i>31</i> min
required spacing	
• for grounded parts at 400 V	20 mm
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
for live parts at 400 V	
— downwards	30 mm

 at the side for grounded parts at 500 V downwards upwards at the side for live parts at 500 V downwards at the side for live parts at 500 V downwards upwards at the side for grounded parts at 690 V 	mm mm nm mm
 for grounded parts at 500 V — downwards — upwards — at the side 9 m for live parts at 500 V — downwards — upwards — upwards — at the side 9 m for grounded parts at 690 V 	mm mm mm mm mm mm mm
 — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side 9 m • for grounded parts at 690 V 	mm mm mm nm nm
 — upwards — at the side ● for live parts at 500 V — downwards — upwards — at the side ● for grounded parts at 690 V 	mm mm mm nm nm
 — at the side ● for live parts at 500 V — downwards — upwards — at the side ● for grounded parts at 690 V 	nm mm nm
 for live parts at 500 V — downwards — upwards — at the side 9 m for grounded parts at 690 V 	mm mm nm
 — downwards — upwards — at the side 9 m • for grounded parts at 690 V 	mm nm
 — upwards — at the side 9 m • for grounded parts at 690 V 	mm nm
— at the side9 m• for grounded parts at 690 V	mm
• for grounded parts at 690 V	mm
— downwards 50 i	
	mm
— upwards 50 r	
— backwards 0 m	nm
— at the side 30 r	mm
— forwards 0 m	nm
for live parts at 690 V	
— downwards 50 r	mm
— upwards 50 r	mm
— backwards 0 m	nm
— at the side 30 r	mm
— forwards 0 m	nm
Connections/ Terminals	
product function removable terminal for auxiliary and No	
control circuit	
type of electrical connection	
• for main current circuit scre	ew-type terminals
•	p and bottom
circuit	
type of connectable conductor cross-sections	
• for main contacts	
	(1 2,5 mm²), 2x (2,5 10 mm²)
· · · · · · · · · · · · · · · · · · ·	(1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
• at AWG cables for main contacts 2x ((16 12), 2x (14 8)
tightening torque	
• for main contacts with screw-type terminals 2	. 2.5 N·m
design of screwdriver shaft Dia	ameter 5 to 6 mm
size of the screwdriver tip Poz	zidriv 2
design of the thread of the connection screw	
• for main contacts M4	
Safety related data	
B10 value	
• with high demand rate acc. to SN 31920 5 00	00
proportion of dangerous failures	
• with low demand rate acc. to SN 31920 50 9	%
• with high demand rate acc. to SN 31920 50 9	%
failure rate [FIT]	
	FIT
T1 value for proof test interval or service life acc. to IEC 61508	у
protection class IP on the front acc. to IEC 60529	20
touch protection on the front acc. to IEC 60529 fing	ger-safe, for vertical contact from the front
display version for switching status Har	ndle
Certificates/ approvals	
General Product Approval	For use in hazard- ous locations











For use in hazardous locations

Declaration of Conformity

Test Certificates

<u>KC</u>

Marine / Shipping





Miscellaneous

Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping













other

Railway

Confirmation

Vibration and Shock

Confirmation

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=3RV2021-0HA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-0HA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0HA10

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

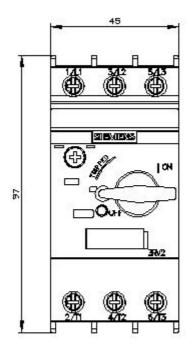
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-0HA10&lang=en

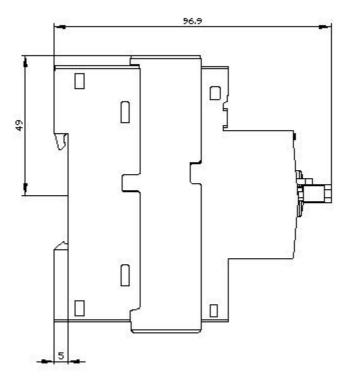
Characteristic: Tripping characteristics, I2t, Let-through current

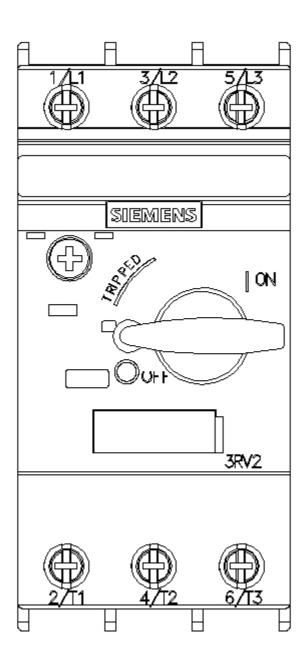
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0HA10/char

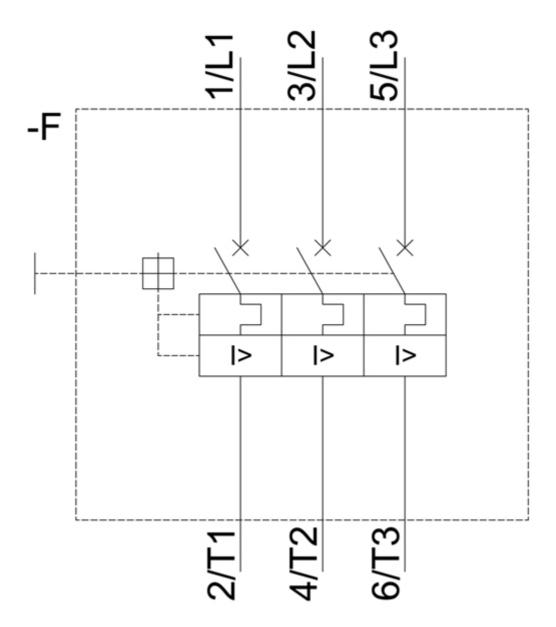
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-0HA10&objecttype=14&gridview=view1









last modified: 12/15/2020 🖸