SIEMENS

Data sheet 3RV1611-1AG14



Voltage transformer Circuit breaker, Size S00 1.4 A, N-release 6 A, 1 CO with transverse auxiliary switch

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	for distance protection
product type designation	3RV1
General technical data	
size of the circuit-breaker	S00
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
mechanical service life (operating cycles)	
● of the main contacts typical	10 000
● of auxiliary contacts typical	10 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/01/2013
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
relative humidity during operation	10 ... 95 %
Main circuit	
number of poles for main current circuit	3
operating voltage	
● rated value	20 ... 690 V
● at AC-3 rated value maximum	400 V
● at AC-3e rated value maximum	400 V
operating frequency rated value	60 Hz
operational current rated value	1.4 A
operational current	
● at AC-3 at 400 V rated value	1.4 A
● at AC-3e at 400 V rated value	1.4 A
operating frequency	
● at AC-3 maximum	15 1/h
● at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse

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number of NC contacts for auxiliary contacts	1
● note	1
number of NO contacts for auxiliary contacts	1
● note	1
number of CO contacts for auxiliary contacts	1
operational current of auxiliary contacts at DC-13	
● at 24 V	0.3 A
● at 60 V	0.3 A
Protective and monitoring functions	
product function	
● ground fault detection	No
● phase failure detection	Yes
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
● at AC at 240 V rated value	100 kA
● at AC at 400 V rated value	50 kA
operating short-circuit current breaking capacity (Ics) at AC	
● at 240 V rated value	100 kA
● at 400 V rated value	50 kA
response value current of instantaneous short-circuit trip unit	6 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
● at 480 V rated value	1.4 A
● at 600 V rated value	1.4 A
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 required	2A FF 250V/1.1kA
design of the fuse link for IT network for short-circuit protection of the main circuit	
● at 240 V	none required
● at 400 V	gL/gG 20 A
● at 500 V	gL/gG 20 A
● at 690 V	gL/gG 20 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	90 mm
width	45 mm
depth	75 mm
required spacing	
● for grounded parts at 400 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
● for live parts at 400 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
● for grounded parts at 500 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
● for live parts at 500 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
● for grounded parts at 690 V	
— downwards	20 mm
— upwards	20 mm

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— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
● for live parts at 690 V	
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 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 circuit	Top and bottom
type of connectable conductor cross-sections	
● for main contacts	
— solid or stranded	2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), 2x (1 ... 4 mm²)
— finely stranded with core end processing	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— solid or stranded	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
tightening torque	
● for main contacts with screw-type terminals	0.8 ... 1.2 N·m
● for auxiliary contacts with screw-type terminals	0.8 ... 1.2 N·m
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
● for main contacts	M3
● of the auxiliary and control contacts	M3

Safety related data	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Rocker switch

Certificates/ approvals

General Product Approval				Declaration of Conformity	
CCC	Confirmation	UL	EAC	UKCA	CE EG-Konf.

Test Certificates		Marine / Shipping			other
Special Test Certific-ate	Type Test Certific-ates/Test Report	ABS	PRS	RMRS	Miscellaneous

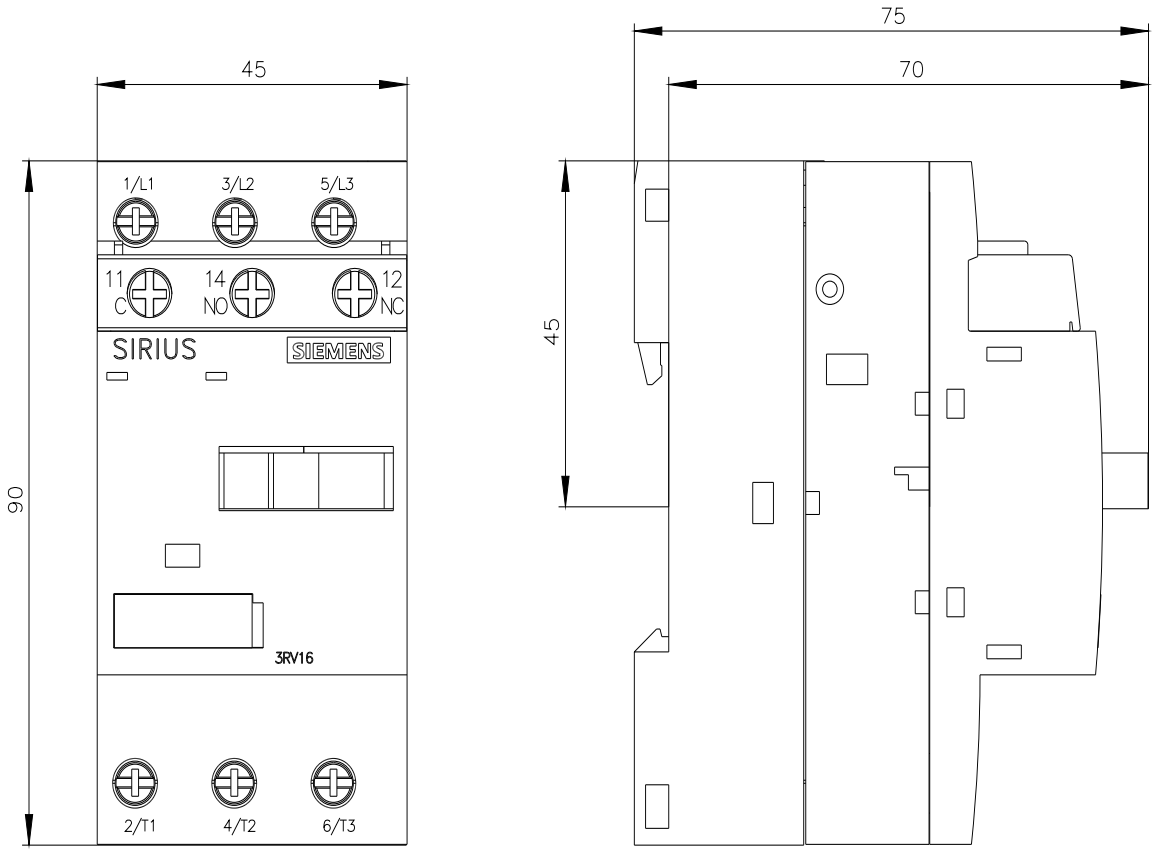
other		Railway
Confirmation	VDE	Special Test Certific-ate

Further information

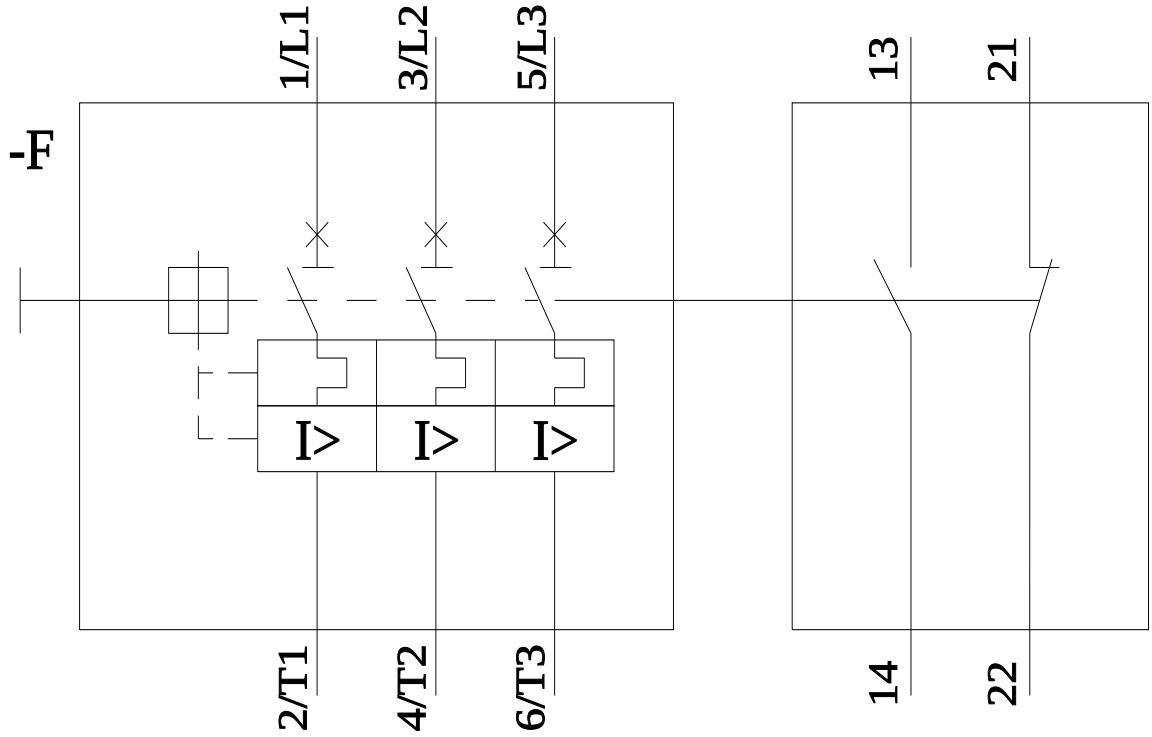
Siemens has decided to exit the Russian market (see here).
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the EAC certification 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

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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=3RV1611-1AG14
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1611-1AG14
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RV1611-1AG14
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1611-1AG14&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RV1611-1AG14/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1611-1AG14&objecttype=14&gridview=view1



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last modified: 11/21/2022

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