SIEMENS

Data sheet 3RV1611-1CG14



Voltage transformer Circuit breaker, Size S00 2.5 A, N-release 10.5 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 (switching 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	2.5 A
operational current	
 at AC-3 at 400 V rated value 	2.5 A
at AC-3e at 400 V rated value	2.5 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
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	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
breaking capacity maximum short-circuit current (lcu)	
 at AC at 240 V rated value 	100 kA
at AC at 400 V rated value	50 kA
breaking capacity operating short-circuit current (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	10.5 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	2.5 A
at 600 V rated value	2.5 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 35 A
• at 500 V	gL/gG 25 A
• at 690 V	gL/gG 25 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting 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	20 mm
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
for grounded parts at 500 Vdownwards	20 mm
	20 mm
— upwards — at the side	9 mm
for live parts at 500 V	O IIIIII
— downwards	20 mm
— upwards	20 mm
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— at the side	9 mm	
 for grounded parts at 690 V 		
— downwards	20 mm	
— upwards	20 mm	
— 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	1 02.0117 0.20 2	
• for main contacts	M3	
of the auxiliary and control contacts	M3	
Safety related data		
protection class IP on the front according to IEC	IP20	
60529	11 20	
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





Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping



Special Test Certificate

Type Test Certificates/Test Report







other Railway



Special Test Certificate

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=3RV1611-1CG14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1611-1CG14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1611-1CG14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1611-1CG14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1611-1CG14/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1611-1CG14&objecttype=14&gridview=view1

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