SIEMENS

Data sheet 3RV1611-1DG14



Voltage transformer Circuit breaker, Size S00 3 A, N-release 20 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	3 A	
operational current		
 at AC-3 at 400 V rated value 	3 A	
at AC-3e at 400 V rated value	3 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 (Icu)		
 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	20 A	
UL/CSA ratings		
full-load current (FLA) for 3-phase AC motor		
 at 480 V rated value 	3 A	
 at 600 V rated value 	3 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 40 A	
● at 500 V	gL/gG 35 A	
● at 690 V	gL/gG 35 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	
— downwards	20 mm	
— upwards	20 mm	
— at the side	9 mm	
for grounded parts at 500 V downwords	20 mm	
— 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		
— 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	

General Product Approval

Declaration of Conformity





Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping



Special Test Certificate

Type Test Certificates/Test Report







other Railway



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=3RV1611-1DG14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1611-1DG14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1611-1DG14

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

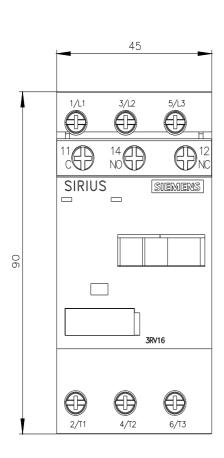
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1611-1DG14&lang=en

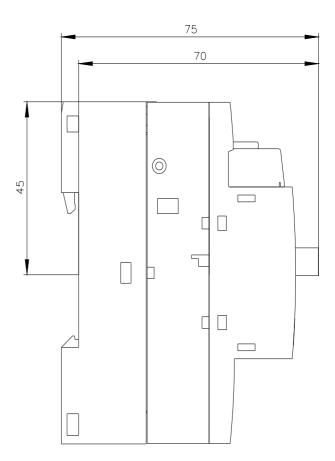
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1611-1DG14/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1611-1DG14&objecttype=14&gridview=view1





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