## **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	
<ul> <li>at AC in hot operating state</li> </ul>	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)	
<ul> <li>of the main contacts typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-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
<ul> <li>at AC-3 rated value maximum</li> </ul>	400 V
at AC-3e rated value maximum	400 V
operating frequency rated value	60 Hz
operational current rated value	3 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	3 A
• at AC-3e at 400 V rated value	3 A
operating frequency	
<ul> <li>at AC-3 maximum</li> </ul>	15 1/h
<ul><li>at AC-3e maximum</li></ul>	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		
<ul> <li>ground fault detection</li> </ul>	No	
phase failure detection	Yes	
design of the overload release	thermal	
breaking capacity maximum short-circuit current (lcu)		
<ul> <li>at AC at 240 V rated value</li> </ul>	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		
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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 240 V	none required	
• at 500 V	gL/gG 40 A gL/gG 35 A	
• at 690 V	gL/gG 35 A	
Installation/ mounting/ dimensions	9-9-5071	
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 required spacing	75 mm	
• 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	
<ul> <li>for grounded parts at 500 V</li> </ul>		
— downwards	20 mm	
— upwards	20 mm	
— at the side	9 mm	
<ul> <li>for live parts at 500 V</li> </ul>		
— downwards	20 mm	
— upwards	20 mm	

— at the side	9 mm		
<ul> <li>for grounded parts at 690 V</li> </ul>			
— downwards	20 mm		
— upwards	20 mm		
— backwards	0 mm		
— at the side	9 mm		
— forwards	0 mm		
<ul> <li>for live parts at 690 V</li> </ul>			
— 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		
<ul> <li>for auxiliary and control circuit</li> </ul>	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	ZX (0.0 1.0 Hill), ZX (0.10 2.0 Hill)		
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	IVIO		
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



## **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

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV1611-1DG14}}$ 

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

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

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

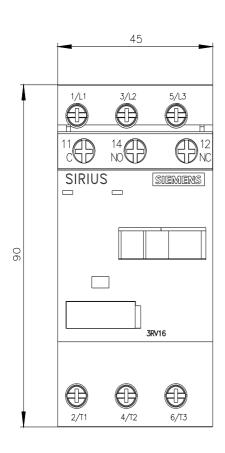
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV1611-1DG14&lang=en

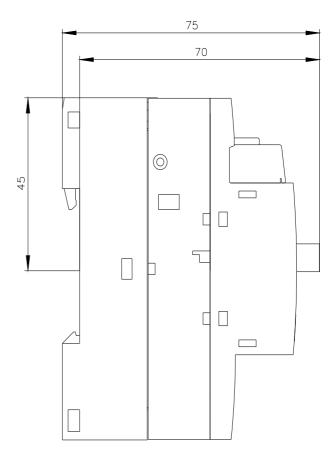
Characteristic: Tripping characteristics, I2t, Let-through current

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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