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-3 maximum at AC-3e maximum	15 1/h 15 1/h
• at AC-3 maximum	

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 ● at 60 V	0.3 A 0.3 A			
Protective and monitoring functions	0.5 A			
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 ● at 690 V	gL/gG 35 A gL/gG 35 A			
Installation/ mounting/ dimensions	g⊡ge 55 A			
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			
— backwards	0 mm			

— at the sid	e		9 mm			
— forwards	-		0 mm			
 for live parts a 	t 690 V					
— downwar			20 mm			
— upwards			20 mm			
— backward	ds		0 mm			
— at the sid			9 mm			
— forwards			0 mm			
Connections/ Termin	nals					
type of electrical co						
 for main current 			screw-type terminals			
 for auxiliary ar 			screw-type terminals			
arrangement of ele circuit	ctrical connectors for m	ain current	Top and bottom			
type of connectable	e conductor cross-secti	ons				
 for main conta 	cts					
— solid or si	tranded		2x (0,5 1,5 mm²), 2x (0,7	5 2,5 mm²), 2x (1	4 mm²)	
— finely stra	anded with core end proce	essing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
type of connectable	e conductor cross-secti	ons				
 for auxiliary co 	ontacts					
— solid or si	tranded		2x (0.5 1.5 mm²), 2x (0.7	5 2.5 mm²)		
tightening torque						
for main contacts with screw-type terminals		nals	0.8 1.2 N·m			
-	 for auxiliary contacts with screw-type terminals 		0.8 1.2 N·m			
size of the screwdr	•		Pozidriv size 2			
-	d of the connection scr	ew				
 for main conta 			M3			
-	and control contacts		M3			
Safety related data						
protection class IP 60529	on the front according	to IEC	IP20			
	n the front according to	IEC 60529	finger-safe, for vertical cont	act from the front		
			Rocker switch			
Certificates/ approva						
General Product A	General Product Approval Declaration of Conformity					
		Confirmation	\sim			
(SP	(000)		(ŲL)	FHI	UK	
			<u> </u>	LIIL	CA	
Can			ŬĽ.			
Declaration of	Test Certificates		Marina / Chinning			
Conformity	Test Certificates		Marine / Shipping			
	Special Test Certific-	Type Test Certi	ific-	ANT A	æ	
CE	ate	ates/Test Repo		(23)	(f@7)	
			A Sugar			
EG-Konf.			ABS	PRS	RMRS	
other			Railway			
Miscellaneous	Confirmation	\wedge	Special Test Certific-			
		(D'E)	ate			
		VDE				
		¥UE				
Further information						
Information- and De	ownloadcenter (Catalog	s, Brochures,)			

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

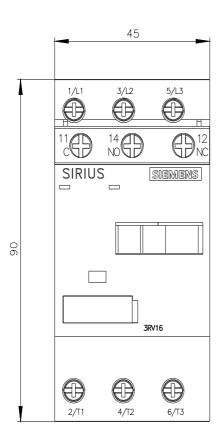
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1611-1DG14&lang=en</u>

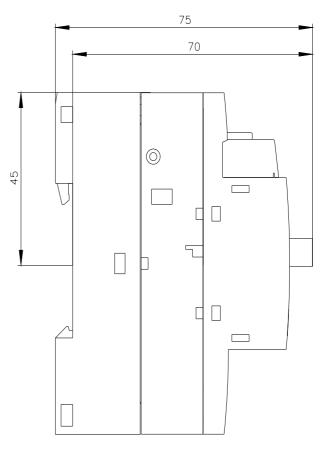
Characteristic: Tripping characteristics, I²t, Let-through current

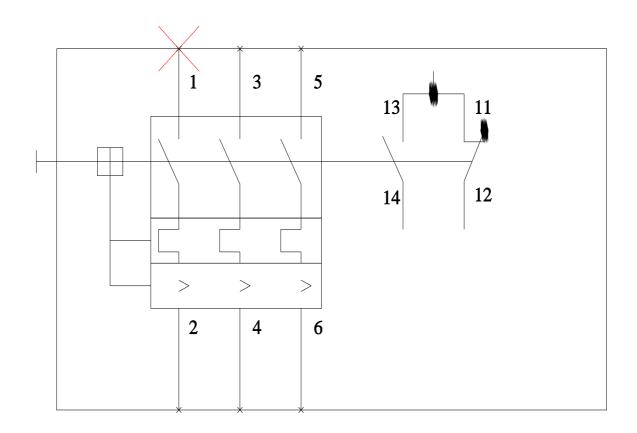
https://support.industry.siemens.com/cs/ww/en/ps/3RV1611-1DG14/char

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







last modified:

11/21/2022 🖸