

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
Product type designation	3RV1
General technical data	
Size of the circuit-breaker	S00
Product extension	Yes
<ul style="list-style-type: none"> Auxiliary switch 	Yes
Power loss [W] for rated value of the current	
<ul style="list-style-type: none"> at AC in hot operating state 	7.25 W
<ul style="list-style-type: none"> 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
maximum permissible voltage for safe isolation	
<ul style="list-style-type: none"> in networks with grounded star point between main and auxiliary circuit 	400 V
<ul style="list-style-type: none"> in networks with grounded star point between main and auxiliary circuit 	400 V
Protection class IP	

<ul style="list-style-type: none"> • on the front • of the terminal 	<p>IP20</p> <p>IP00</p>
Mechanical service life (switching cycles)	
<ul style="list-style-type: none"> • of the main contacts typical • of auxiliary contacts typical 	<p>10 000</p> <p>10 000</p>
Reference code acc. to DIN EN 81346-2	Q

Ambient conditions

Installation altitude at height above sea level	
<ul style="list-style-type: none"> • maximum 	2 000 m
Ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	<p>-20 ... +60 °C</p> <p>-50 ... +80 °C</p> <p>-50 ... +80 °C</p>
Temperature compensation	-20 ... +60 °C
Relative humidity during operation	10 ... 95 %

Main circuit

Number of poles for main current circuit	3
Operating voltage	
<ul style="list-style-type: none"> • rated value • at AC-3 rated value maximum 	<p>400 V</p> <p>400 V</p>
Operating frequency rated value	60 Hz
Operating current rated value	1.4 A
Operating current	
<ul style="list-style-type: none"> • at AC-3 — at 400 V rated value 	<p>1.4 A</p>
Operating frequency	
<ul style="list-style-type: none"> • at AC-3 maximum 	15 1/h

Auxiliary circuit

Design of the auxiliary switch	transverse
Number of NC contacts for auxiliary contacts	1
<ul style="list-style-type: none"> • Note 	1
Number of NO contacts for auxiliary contacts	1
<ul style="list-style-type: none"> • Note 	1
Number of CO contacts	
<ul style="list-style-type: none"> • for auxiliary contacts 	1
Operating current of auxiliary contacts at DC-13	
<ul style="list-style-type: none"> • at 24 V • at 60 V 	<p>0.3 A</p> <p>0.3 A</p>

Protective and monitoring functions

Product function	
<ul style="list-style-type: none"> • Ground fault detection 	No

• Phase failure detection	Yes
Design of the overload release	thermal
Operational short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 000 A
• at 400 V rated value	50 000 A
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
Response value current	
• of instantaneous short-circuit trip unit	6 A

UL/CSA ratings

Full-load current (FLA) for three-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
Mounting type	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
— Backwards	0 mm
— at the side	9 mm
— forwards	0 mm
• for live parts at 400 V	










— downwards	20 mm
— upwards	20 mm
— Backwards	0 mm
— at the side	9 mm
— forwards	0 mm
• for grounded parts at 500 V	
— downwards	20 mm
— upwards	20 mm
— Backwards	0 mm
— at the side	9 mm
— forwards	0 mm
• for live parts at 500 V	
— downwards	20 mm
— upwards	20 mm
— Backwards	0 mm
— at the side	9 mm
— forwards	0 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

Connections/ Terminals

Product function	
• removable terminal for auxiliary and control circuit	No
Type of electrical connection	
• for main current circuit	screw-type terminals
• for auxiliary and control current circuit	screw-type terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
Type of connectable conductor cross-sections	
• for main contacts	
— single or multi-stranded	2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²), 2x (1 ... 4 mm ²)
— finely stranded with core end processing	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)

Type of connectable conductor cross-sections	
<ul style="list-style-type: none"> for auxiliary contacts — single or multi-stranded 	2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²)
Tightening torque	
<ul style="list-style-type: none"> for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 	0.8 ... 1.2 N·m
Size of the screwdriver tip	Pozidriv 2
Design of the thread of the connection screw	
<ul style="list-style-type: none"> for main contacts of the auxiliary and control contacts 	M3
Display version	
<ul style="list-style-type: none"> for switching status 	Rocker switch

Certificates/ approvals

General Product Approval			Declaration of Conformity		
 CCC	 CSA	 UL		 EG-Konf.	Miscellaneous
Test Certificates	Marine / Shipping			other	
Special Test Certificate	 ABS	 RINA	 RMRS	Confirmation	Miscellaneous
other	Railway				
 VDE	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=3RV1611-1AG14>

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, ...)

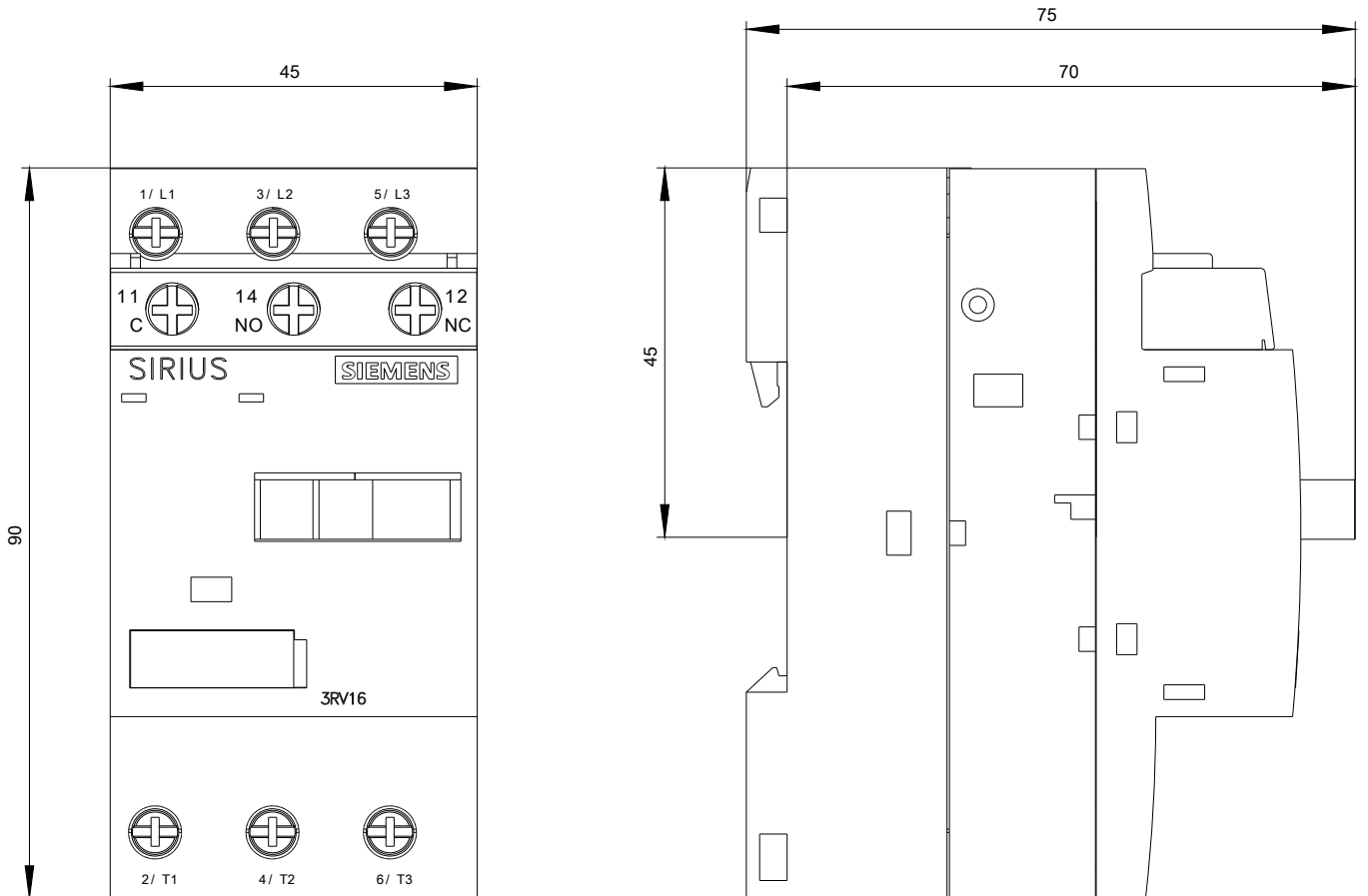
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1611-1AG14&lang=en

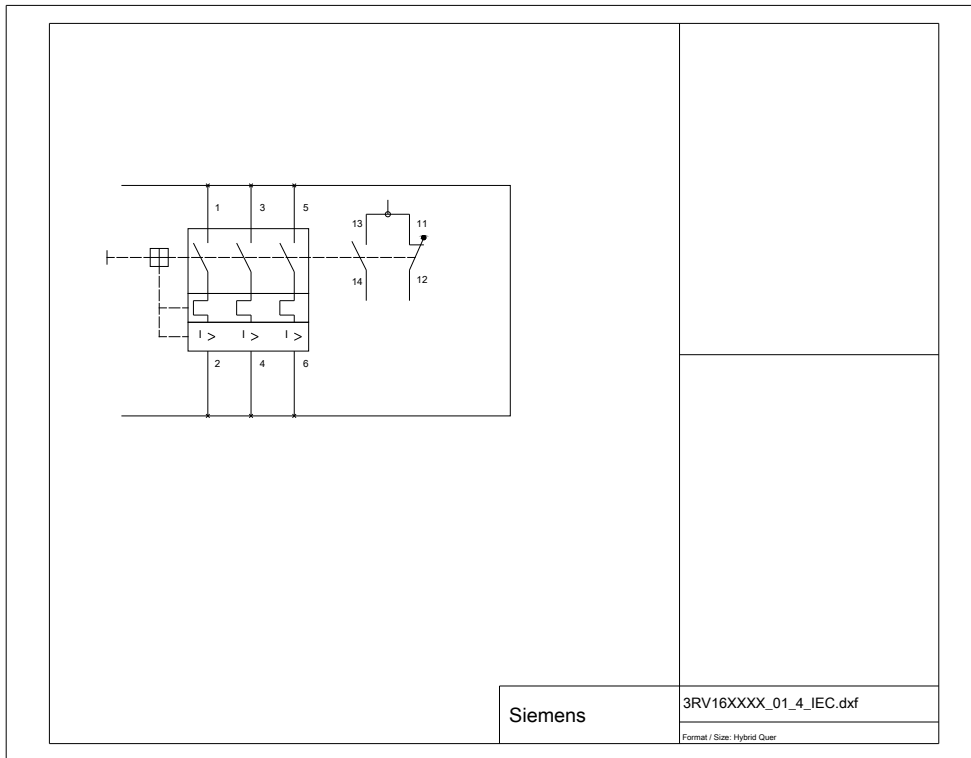
Characteristic: Tripping characteristics, I²t, Let-through current

<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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