

CIRCUIT-BREAKER, SIZE S00, FOR MOTOR PROTECTION,
CLASS 10, A REL.0.9...1.25A, N REL.16A, 1NO + 1NC
TRANSVERSE, SCREW CONN., STANDARD BREAKING CAPAC.



product brand name	SIRIUS
Product designation	Circuit breaker
Design of the product	For motor protection

General technical data	
Size of the circuit-breaker	S00
Size of contactor can be combined company-specific	S00
Product extension	
• Auxiliary switch	Yes
Power loss [W] total typical	5 W
Insulation voltage with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
• in networks with grounded star point between main and auxiliary circuit	400 V
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Protection class IP	
• on the front	IP20

• of the terminal	IP00
Mechanical service life (switching cycles)	
• of the main contacts typical	100 000
• of auxiliary contacts typical	100 000
Electrical endurance (switching cycles)	
• typical	100 000
Type of protection	Increased safety
Protection against electrical shock	finger-safe
Equipment marking acc. to DIN EN 81346-2	Q

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
Temperature compensation	-20 ... +60 °C
Relative humidity during operation	10 ... 95 %

Main circuit

Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	0.9 ... 1.25 A
Operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V
Operating frequency rated value	50 ... 60 Hz
Operating current rated value	1.25 A
Operating current	
• at AC-3	
— at 400 V rated value	1.25 A
Operating power	
• at AC-3	
— at 230 V rated value	180 W
— at 400 V rated value	370 W
— at 500 V rated value	550 W
— at 690 V rated value	750 W
Operating frequency	
• at AC-3 maximum	15 1/h

Auxiliary circuit

Design of the auxiliary switch	transverse
Number of NC contacts	

<ul style="list-style-type: none"> • for auxiliary contacts 	1
— Note	1
Number of NO contacts	
<ul style="list-style-type: none"> • for auxiliary contacts 	1
— Note	1
Number of CO contacts	
<ul style="list-style-type: none"> • for auxiliary contacts 	0
Operating current of auxiliary contacts at AC-15	
<ul style="list-style-type: none"> • at 24 V 	2 A
<ul style="list-style-type: none"> • at 110 V 	2 A
<ul style="list-style-type: none"> • at 120 V 	2 A
<ul style="list-style-type: none"> • at 125 V 	2 A
<ul style="list-style-type: none"> • at 230 V 	0.5 A
Operating current of auxiliary contacts at DC-13	
<ul style="list-style-type: none"> • at 24 V 	1 A
<ul style="list-style-type: none"> • at 60 V 	0.15 A

Protective and monitoring functions	
Trip class	CLASS 10
Design of the overload release	thermal
Operational short-circuit current breaking capacity (Ics) at AC	
<ul style="list-style-type: none"> • at 240 V rated value 	100 000 A
<ul style="list-style-type: none"> • at 400 V rated value 	100 000 A
<ul style="list-style-type: none"> • at 500 V rated value 	100 000 A
<ul style="list-style-type: none"> • at 690 V rated value 	2 000 A
Maximum short-circuit current breaking capacity (Icu)	
<ul style="list-style-type: none"> • at AC at 240 V rated value 	100 kA
<ul style="list-style-type: none"> • at AC at 400 V rated value 	100 kA
<ul style="list-style-type: none"> • at AC at 500 V rated value 	100 kA
<ul style="list-style-type: none"> • at AC at 690 V rated value 	2 kA
Breaking capacity short-circuit current (Icn)	
<ul style="list-style-type: none"> • at 1 current path at DC at 150 V rated value 	10 kA
<ul style="list-style-type: none"> • with 2 current paths in series at DC at 300 V rated value 	10 kA
<ul style="list-style-type: none"> • with 3 current paths in series at DC at 450 V rated value 	10 kA

UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
<ul style="list-style-type: none"> • at 480 V rated value 	1.25 A
<ul style="list-style-type: none"> • at 600 V rated value 	1.25 A
Yielded mechanical performance [hp]	

<ul style="list-style-type: none"> • for three-phase AC motor <ul style="list-style-type: none"> — at 460/480 V rated value — at 575/600 V rated value 	<p>0.5 hp</p> <p>0.5 hp</p>
Contact rating of auxiliary contacts according to UL	C300 / R300

Short-circuit protection

Design of the short-circuit trip	magnetic
Design of the fuse link <ul style="list-style-type: none"> • for short-circuit protection of the auxiliary switch required 	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current $I_k < 400$ A)
Design of the fuse link for IT network for short-circuit protection of the main circuit <ul style="list-style-type: none"> • at 240 V • at 400 V • at 500 V • at 690 V 	<p>none required</p> <p>gL/gG 20 A</p> <p>gL/gG 16 A</p> <p>gL/gG 16 A</p>

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	81 mm

Connections/Terminals

Product function <ul style="list-style-type: none"> • removable terminal for auxiliary and control circuit 	No
Type of electrical connection <ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit 	<p>screw-type terminals</p> <p>screw-type terminals</p>
Arrangement of electrical connectors for main current circuit	Top and bottom
Type of connectable conductor cross-sections <ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — single or multi-stranded — finely stranded with core end processing 	<p>2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), 2x (1 ... 4 mm²)</p> <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)</p>
Type of connectable conductor cross-sections <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — 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 	<p>0.8 ... 1.2 N·m</p> <p>0.8 ... 1.2 N·m</p>
Design of the thread of the connection screw	

- for main contacts
- of the auxiliary and control contacts

M3

M3

Safety related data

B10 value	
<ul style="list-style-type: none"> • with high demand rate acc. to SN 31920 	5 000
Proportion of dangerous failures	
<ul style="list-style-type: none"> • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 	50 %
Failure rate [FIT]	
<ul style="list-style-type: none"> • with low demand rate acc. to SN 31920 	50 FIT

Certificates/approvals

General Product Approval

For use in hazardous locations



Declaration of Conformity

Test Certificates

Shipping Approval



[spezielle Prüfbescheinigung](#)
n



Shipping Approval

other



[Umweltbestätigung](#)

[sonstig](#)

other

[Bestätigungen](#)



Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1011-0KA15>

Cax online generator

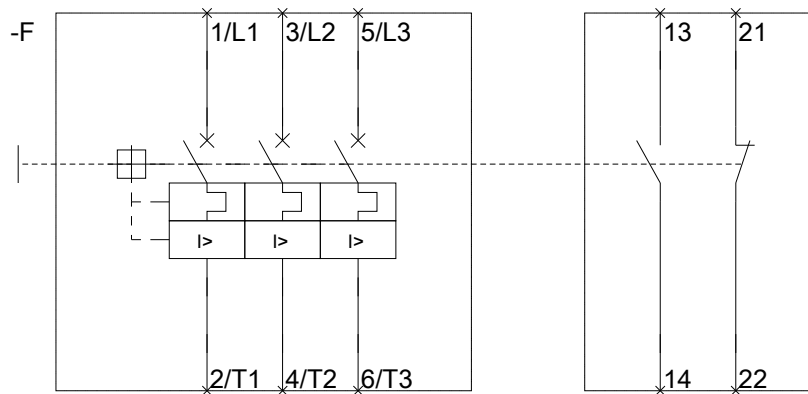
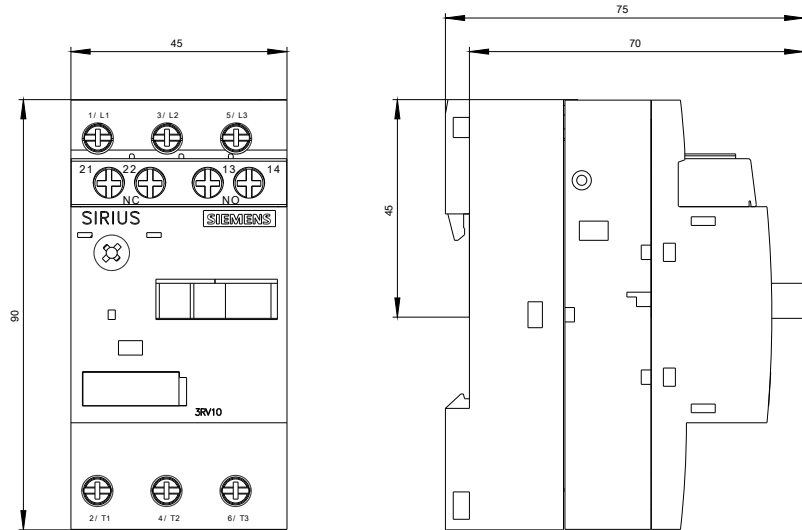
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RV1011-0KA15>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0KA15>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RV1011-0KA15&lang=en



last modified:

10/08/2016