



CIRCUIT BREAKER, SIZE S2, FOR STARTER COMBINATION, RATED CURRENT 25A, N-RELEASE 325A, SCREW TERMINAL, STANDARD BREAKING CAPACITY

Figure similar

product brand name		SIRIUS
Product designation		3RV2 circuit breaker

### General technical data:

<b>Active power loss total typical</b>	W	12
<b>Insulation voltage</b>	V	690
<ul style="list-style-type: none"> <li>with degree of pollution 3 Rated value</li> </ul>		
<b>Shock resistance</b>		25g / 11 ms Sinus
<ul style="list-style-type: none"> <li>acc. to IEC 60068-2-27</li> </ul>		
<b>Surge voltage resistance Rated value</b>	kV	6
<b>Mechanical service life (switching cycles)</b>		
<ul style="list-style-type: none"> <li>of the main contacts typical</li> </ul>		50 000
<ul style="list-style-type: none"> <li>of the auxiliary contacts typical</li> </ul>		50 000
<b>Electrical endurance (switching cycles)</b>		
<ul style="list-style-type: none"> <li>typical</li> </ul>		50 000
<b>Size of contactor can be combined company-specific</b>		S2
<b>Protection class IP</b>		
<ul style="list-style-type: none"> <li>on the front</li> </ul>		IP20
<ul style="list-style-type: none"> <li>of the terminal</li> </ul>		IP00
<b>Equipment marking</b>		
<ul style="list-style-type: none"> <li>acc. to DIN EN 81346-2</li> </ul>		Q

### Main circuit:

<b>Number of poles for main current circuit</b>		3
<b>Operating voltage</b>	V	690
<ul style="list-style-type: none"> <li>Rated value</li> </ul>		

<ul style="list-style-type: none"> <li>• at AC-3 Rated value maximum</li> </ul>	V	690
Operating frequency Rated value	Hz	50 ... 60
<b>Operating current Rated value</b>	A	25
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V Rated value</li> </ul> </li> </ul>	A	25
<b>Operating power</b>		
<ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 230 V Rated value</li> <li>— at 400 V Rated value</li> <li>— at 500 V Rated value</li> <li>— at 690 V Rated value</li> </ul> </li> </ul>	W	5 500
	W	11 000
	W	15 000
	W	22 000
<b>Operating frequency</b>		
<ul style="list-style-type: none"> <li>• at AC-3 maximum</li> </ul>	1/h	15

#### Auxiliary circuit:

<b>Product expansion Auxiliary switch</b>	Yes
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#### Protective and monitoring functions:

<b>Operational short-circuit current breaking capacity (Ics) with AC</b>		
<ul style="list-style-type: none"> <li>• at 240 V Rated value</li> <li>• at 400 V Rated value</li> <li>• at 500 V Rated value</li> <li>• at 690 V Rated value</li> </ul>	A	100
	kA	30
	kA	6
	kA	3
<b>Maximum short-circuit current breaking capacity (Icu)</b>		
<ul style="list-style-type: none"> <li>• with AC at 240 V Rated value</li> <li>• with AC at 400 V Rated value</li> <li>• with AC at 500 V Rated value</li> <li>• with AC at 690 V Rated value</li> </ul>	kA	100
	kA	65
	kA	12
	kA	5
<b>Response value current of the instantaneous short-circuit release</b>	A	325

#### UL/CSA ratings:

<b>Full-load current (FLA) for three-phase AC motor</b>		
<ul style="list-style-type: none"> <li>• at 480 V Rated value</li> <li>• at 600 V Rated value</li> </ul>	A	25
	A	25
<b>yielded mechanical performance [hp]</b>		
<ul style="list-style-type: none"> <li>• for single-phase AC motor at 110/120 V Rated value</li> <li>• for single-phase AC motor at 230 V Rated value</li> <li>• for three-phase AC motor at 200/208 V Rated value</li> </ul>	metric hp	2
	metric hp	5
	metric hp	7.5

- for three-phase AC motor at 220/230 V Rated value
- for three-phase AC motor at 460/480 V Rated value
- for three-phase AC motor at 575/600 V Rated value

metric hp	10
metric hp	20
metric hp	25

#### Short-circuit:

<b>Product function Short circuit protection</b>		Yes
<b>Design of the short-circuit trip</b>		magnetic
<b>Design of the fuse link for IT network for short-circuit protection of the main circuit</b>		
<ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 400 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>		none required 100 80 63

#### Installation/ mounting/ dimensions:

<b>mounting position</b>		any
<b>Mounting type</b>		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
<b>Height</b>	mm	140
<b>Width</b>	mm	55
<b>Depth</b>	mm	149
<b>Required spacing</b>		
<ul style="list-style-type: none"> <li>• with side-by-side mounting           <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts           <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts           <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul>	mm	0 0 50 50 0  0 0 50 10 50  0 0 50 50 10

Connections/ Terminals:		
<b>Type of electrical connection</b> • for main current circuit		screw-type terminals
<b>Arrangement of electrical connectors for main current circuit</b>		Top and bottom
<b>Product function</b> • removable terminal for auxiliary and control circuit		No
<b>Type of connectable conductor cross-section</b> • for main contacts — single or multi-stranded — finely stranded with core end processing • for AWG conductors for main contacts		2x (1 ... 25 mm <sup>2</sup> ), 1x (1 ... 35 mm <sup>2</sup> ) 2x (1 ... 16 mm <sup>2</sup> ), 1x (1 ... 25 mm <sup>2</sup> ) 2x (18 ... 3), 1x (18 ... 2)
<b>Tightening torque</b> • for main contacts with screw-type terminals	N·m	3 ... 4.5
<b>Design of screwdriver shaft</b>		Diameter 5 to 6 mm
<b>Design of the thread of the connection screw</b> • for main contacts		M6
Safety related data:		
<b>Protection against electrical shock</b>		finger-safe when touched vertically from front acc. to IEC 60529
Mechanical data:		
<b>Size of the circuit-breaker</b>		S2
Ambient conditions:		
<b>Installation altitude at height above sea level maximum</b>	m	2 000
<b>Ambient temperature</b> • during operation • during storage • during transport	°C °C °C	-20 ... +60 -50 ... +80 -50 ... +80
<b>Relative humidity during operation</b>	%	10 ... 95
Display:		
<b>Display version</b> • for switching status		Handle
Certificates/ approvals:		



CSA



UL

[Confirmation](#)[Environmental  
Confirmations](#)

## Further information

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

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

### Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

### Cax online generator

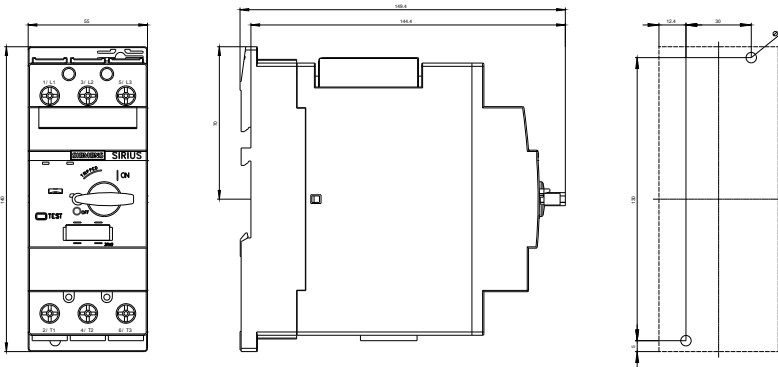
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mf=3RV23314DC10>

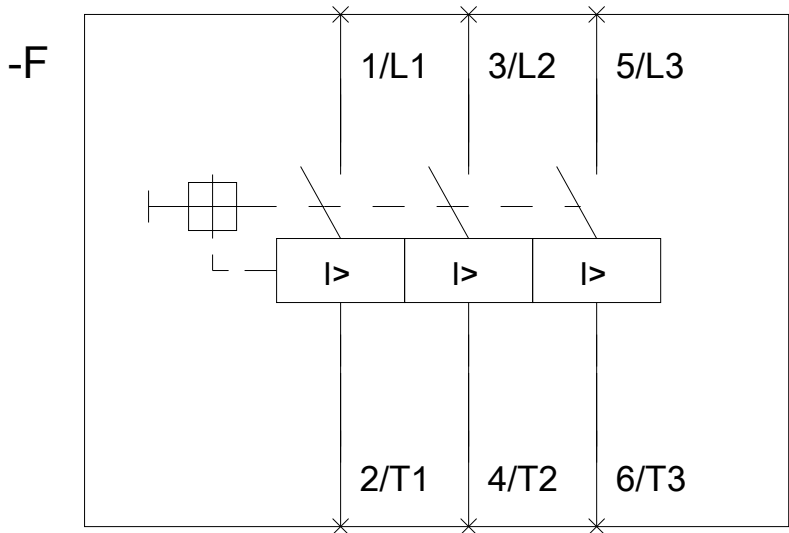
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RV23314DC10/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mf=3RV23314DC10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mf=3RV23314DC10&lang=en)





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