



CIRCUIT BREAKER, SIZE S2, FOR TRANSFORMER PROTECTION, A-RELEASE 22...32A, N-RELEASE 640A, 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	14
<b>Insulation voltage</b>	V	690
• with degree of pollution 3 Rated value		
<b>Shock resistance</b>		25g / 11 ms Sinus
• acc. to IEC 60068-2-27		
<b>Surge voltage resistance Rated value</b>	kV	6
<b>Mechanical service life (switching cycles)</b>		
• of the main contacts typical		50 000
• of the auxiliary contacts typical		50 000
<b>Electrical endurance (switching cycles)</b>		
• typical		50 000
<b>Temperature compensation</b>	°C	-20 ... +60
<b>Size of contactor can be combined company-specific</b>		S2
<b>Protection class IP</b>		
• on the front		IP20
• of the terminal		IP00
<b>Equipment marking</b>		
• acc. to DIN EN 81346-2		Q

### Main circuit:

<b>Number of poles for main current circuit</b>		3
<b>Adjustable response value current of the current-dependent overload release</b>	A	22 ... 32

<b>Operating voltage</b>		
• Rated value	V	690
• at AC-3 Rated value maximum	V	690
Operating frequency Rated value	Hz	50 ... 60
<b>Operating current Rated value</b>	A	32
<b>Operating current</b>		
• at AC-3		
— at 400 V Rated value	A	32
<b>Operating power</b>		
• at AC-3		
— at 230 V Rated value	W	7 500
— at 400 V Rated value	W	15 000
— at 500 V Rated value	W	18 500
— at 690 V Rated value	W	30 000
<b>Operating frequency</b>		
• at AC-3 maximum	1/h	15

#### Auxiliary circuit:

Product expansion Auxiliary switch		Yes
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#### Protective and monitoring functions:

<b>Trip class</b>		CLASS 10
<b>Design of the overload circuit breaker</b>		thermal
<b>Operational short-circuit current breaking capacity (Ics) with AC</b>		
• at 240 V Rated value	A	100
• at 400 V Rated value	kA	30
• at 500 V Rated value	kA	5
• at 690 V Rated value	kA	2
<b>Maximum short-circuit current breaking capacity (Icu)</b>		
• with AC at 240 V Rated value	kA	100
• with AC at 400 V Rated value	kA	65
• with AC at 500 V Rated value	kA	10
• with AC at 690 V Rated value	kA	4
<b>Response value current of the instantaneous short-circuit release</b>	A	656

#### UL/CSA ratings:

<b>Full-load current (FLA) for three-phase AC motor</b>		
• at 480 V Rated value	A	32
• at 600 V Rated value	A	32
<b>yielded mechanical performance [hp]</b>		
• for single-phase AC motor at 110/120 V Rated value	metric hp	3

- for single-phase AC motor at 230 V Rated value
- for three-phase AC motor at 200/208 V Rated value
- 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	5
metric hp	10
metric hp	10
metric hp	25
metric hp	30

### Short-circuit:

<b>Product function Short circuit protection</b>	Yes
<b>Design of the short-circuit trip</b>	magnetic

### 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>		
<ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>		screw-type terminals

<b>Arrangement of electrical connectors for main current circuit</b>		Top and bottom
<b>Product function</b>		No
<ul style="list-style-type: none"> <li>removable terminal for auxiliary and control circuit</li> </ul>		
<b>Type of connectable conductor cross-section</b>		
<ul style="list-style-type: none"> <li>for main contacts <ul style="list-style-type: none"> <li>— single or multi-stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>for AWG conductors for main contacts</li> </ul>		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>		
<ul style="list-style-type: none"> <li>for main contacts with screw-type terminals</li> </ul>	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>		
<ul style="list-style-type: none"> <li>for main contacts</li> </ul>		M6

#### Safety related data:

<b>Protection against electrical shock</b>		finger-safe when touched vertically from front acc. to IEC 60529
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#### Mechanical data:

<b>Size of the circuit-breaker</b>		S2
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#### Ambient conditions:

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

#### Display:

<b>Display version</b>		
<ul style="list-style-type: none"> <li>for switching status</li> </ul>		Handle

#### Certificates/ approvals:

General Product Approval	other
 CSA	 UL
	<a href="#">Confirmation</a>
	<a href="#">Environmental Confirmations</a>

#### 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**

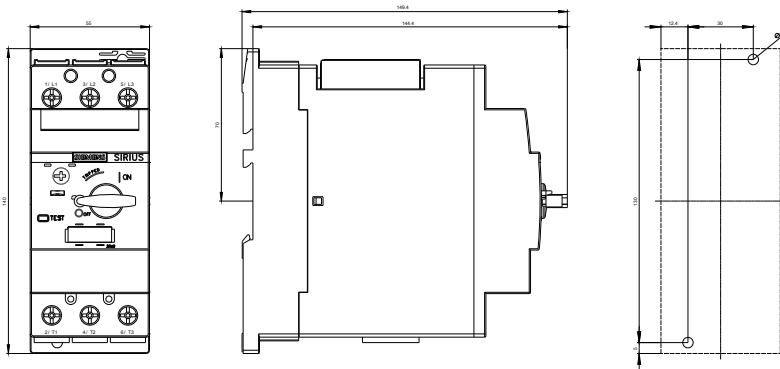
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV24314EA10>

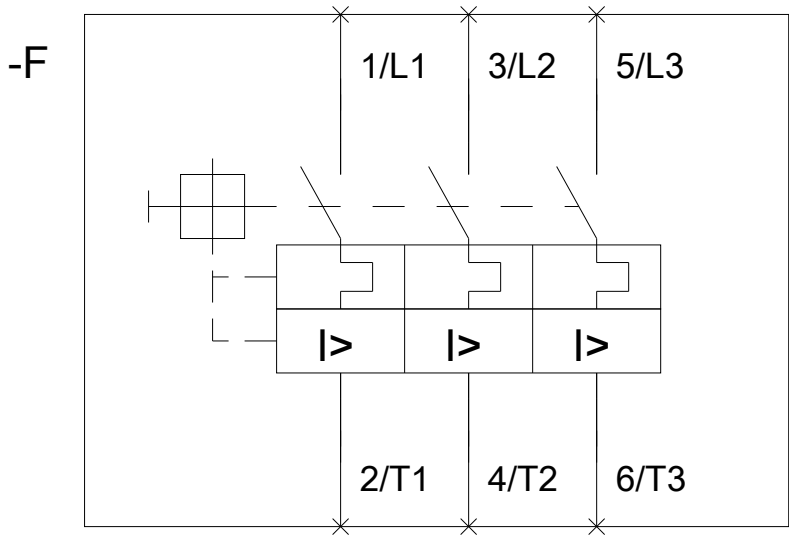
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3RV24314EA10/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV24314EA10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV24314EA10&lang=en)





last modified:

11.03.2015