



CIRCUIT BREAKER, SIZE S2,  
FOR MOTOR PROTECTION, CLASS 10,  
A-RELEASE 32...40A, N-RELEASE 585A,  
SCREW TERMINAL,  
STANDARD BREAKING CAPACITY

General technical data:		
<b>product brand name</b>		SIRIUS
<b>Product designation</b>		3RV2 circuit breaker
<b>Size of the circuit-breaker</b>		S2
<b>Size of contactor / can be combined / company-specific</b>		S00
<b>Number of poles / for main current circuit</b>		3
<b>Product function</b>		
• Short circuit protection		Yes
• overload protection		Yes
• Phase failure detection		Yes
• motor protection		Yes
• Disconnecter functionality		Yes
• Main switches with supply disconnect function and EM-STOP switches		Yes
<b>Design of the operating mechanism</b>		selector switch
<b>Product component</b>		
• Auxiliary switch		No
• undervoltage release		No
• Trip indicator		No
<b>Product expansion</b>		
• Auxiliary switch		Yes

• optional / motor drive		No
<b>Insulation voltage / with degree of pollution 3 / Rated value</b>	V	690
<b>Surge voltage resistance / Rated value</b>	kV	6
<b>Protection class IP</b>		
• of the terminal		IP00
• on the front		IP20
<b>Protection against electrical shock</b>		finger-safe
<b>Installation altitude / at height above sea level / maximum</b>	m	2,000
<b>Relative humidity</b>		
• during operation	%	10 ... 95
<b>Ambient temperature</b>		
• during transport	°C	-50 ... +80
• during storage	°C	-50 ... +80
• during operation	°C	-20 ... +60
<b>Shock resistance / acc. to IEC 60068-2-27</b>		25g / 11 ms Sinus
<b>Usage category</b>		
• acc. to IEC 60947-4-1		AC-3
• acc. to IEC 60947-2		A
<b>Active power loss / total / typical</b>	W	15

#### Main circuit:

<b>Operating current / Rated value</b>	A	40
<b>Operating voltage / Rated value</b>	V	690
<b>Type of voltage / for main current circuit</b>		AC/DC
<b>Operating frequency</b>		
• Rated value	Hz	50 ... 60
<b>Operating current / at AC-3 / at 400 V / Rated value</b>	A	40

#### Protective and monitoring functions:

<b>Certificate of suitability / ATEX</b>		Yes
<b>Design of the overload circuit breaker</b>		thermal
<b>Adjustable response value current / of the current-dependent overload release</b>	A	32 ... 40
<b>Trip class</b>		CLASS 10
<b>Design of the short-circuit trip</b>		magnetic
<b>Response value current / of the instantaneous short-circuit release</b>	A	585
<b>Operational short-circuit current breaking capacity (Ics) / with AC</b>		
• at 240 V / Rated value	kA	100
• at 400 V / Rated value	kA	30

<ul style="list-style-type: none"> <li>• at 500 V / Rated value</li> </ul>	kA	5
<ul style="list-style-type: none"> <li>• at 690 V / Rated value</li> </ul>	kA	2
<b>Maximum short-circuit current breaking capacity (I<sub>cu</sub>)</b>		
<ul style="list-style-type: none"> <li>• with AC / at 240 V / Rated value</li> </ul>	kA	100
<ul style="list-style-type: none"> <li>• with AC / at 400 V / Rated value</li> </ul>	kA	65
<ul style="list-style-type: none"> <li>• with AC / at 500 V / Rated value</li> </ul>	kA	10
<ul style="list-style-type: none"> <li>• with AC / at 690 V / Rated value</li> </ul>	kA	4
<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> </ul>		none required
<ul style="list-style-type: none"> <li>• at 500 V</li> </ul>		100
<ul style="list-style-type: none"> <li>• at 690 V</li> </ul>		80

Installation/ mounting/ dimensions:		
<b>Mounting type</b>		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
<b>mounting position</b>		any
<b>Depth</b>	mm	149
<b>Height</b>	mm	140
<b>Width</b>	mm	55

Connections/ terminals:		
<b>Arrangement of electrical connectors / for main current circuit</b>		Top and bottom
<b>Design of the electrical connection / for main current circuit</b>		screw-type terminals
<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 <ul style="list-style-type: none"> <li>• with core end processing</li> </ul> </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)

UL/CSA ratings:		
<b>Operating voltage / acc. to UL 60947 / Rated value</b>	V	600
<b>Full-load current (FLA) / for three-phase AC motor</b>		
<ul style="list-style-type: none"> <li>• at 480 V / Rated value</li> </ul>	A	40
<ul style="list-style-type: none"> <li>• at 600 V / Rated value</li> </ul>	A	40

### Certificates/ approvals:

### 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

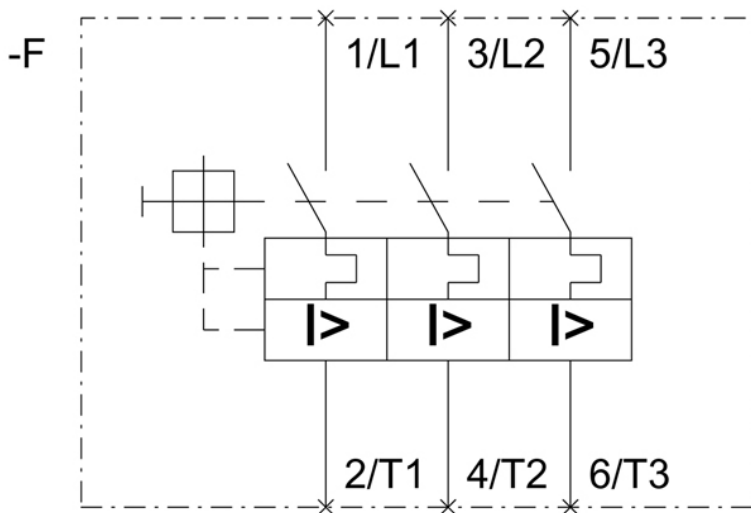
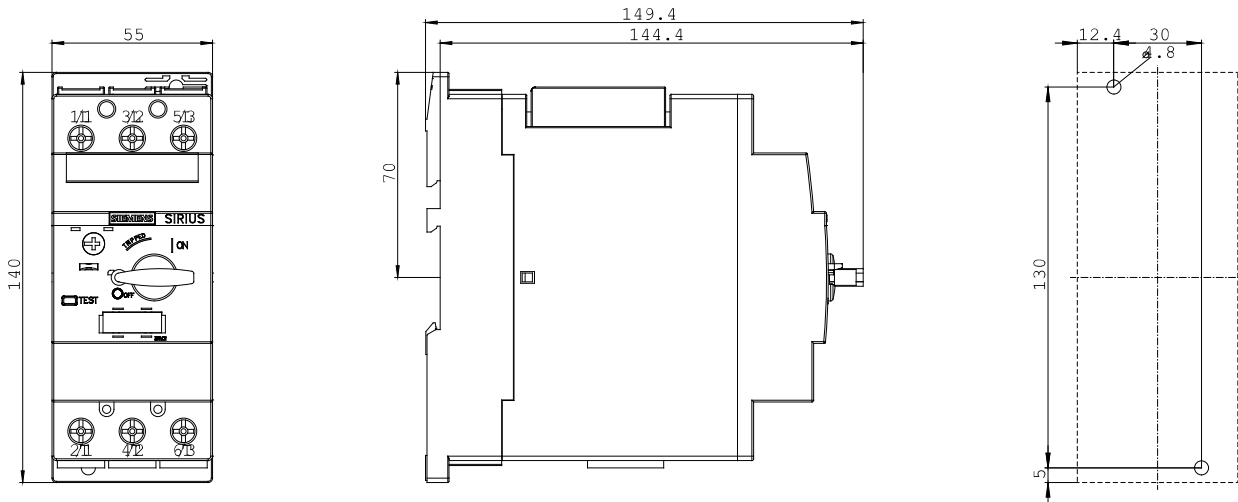
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RV2031-4UA10/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RV2031-4UA10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2031-4UA10)



last change:

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