

Circuit breaker size S0 For transformer protection A-release 5.5...8 A  
 Short-circuit release 163 A Screw terminal Standard switching capacity !!! Phased-out product !!! Successor is SIRIUS 3RV2  
 Preferred successor type is >>3RV2411-1HA10<<



Figure similar

Product brand name	SIRIUS
Product designation	circuit breaker
Design of the product	for transformer protection

General technical data	
Product extension	
• Auxiliary switch	Yes
Power loss [W] total typical	7 W
Surge voltage resistance rated value	6 000 V
Protection class IP	
• on the front	IP20
Shock resistance	25g / 11 ms
Mechanical service life (switching cycles)	
• of the main contacts typical	100 000
Continuous current rated value	8 A

Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m

<b>Ambient temperature</b>	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-20 ... +60 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-50 ... +80 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-50 ... +80 °C

### Main circuit

<b>Number of poles for main current circuit</b>	3
<b>Adjustable pick-up value current of the current-dependent overload release</b>	5.5 ... 8 A
<b>Operating voltage</b>	
<ul style="list-style-type: none"> <li>rated value</li> </ul>	690 V
<ul style="list-style-type: none"> <li>at AC-3 rated value maximum</li> </ul>	690 V
<b>Operating current</b>	
<ul style="list-style-type: none"> <li>at AC-3</li> <li>— at 400 V rated value</li> </ul>	8 A
<b>Operating frequency</b>	
<ul style="list-style-type: none"> <li>at AC-3 maximum</li> </ul>	15 1/h

### Auxiliary circuit

<b>Number of CO contacts</b>	
<ul style="list-style-type: none"> <li>for auxiliary contacts</li> </ul>	0

### Protective and monitoring functions

<b>Product function</b>	
<ul style="list-style-type: none"> <li>Ground fault detection</li> </ul>	No
<ul style="list-style-type: none"> <li>Phase failure detection</li> </ul>	Yes
<b>Trip class</b>	CLASS 10
<b>Maximum short-circuit current breaking capacity (I<sub>cu</sub>)</b>	
<ul style="list-style-type: none"> <li>at AC at 240 V rated value</li> </ul>	100 kA
<ul style="list-style-type: none"> <li>at AC at 400 V rated value</li> </ul>	100 kA
<ul style="list-style-type: none"> <li>at AC at 500 V rated value</li> </ul>	42 kA
<ul style="list-style-type: none"> <li>at AC at 690 V rated value</li> </ul>	6 kA

### Short-circuit protection

<b>Design of the overcurrent release and short-circuit release</b>	thermomagnetic
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### 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 50022
<b>Height</b>	97 mm
<b>Width</b>	45 mm
<b>Depth</b>	96 mm
<b>Required spacing</b>	
<ul style="list-style-type: none"> <li>with side-by-side mounting</li> </ul>	










- Backwards
- at the side

0 mm  
0 mm

## Connections/Terminals

<b>Product function</b>	No
<ul style="list-style-type: none"> <li>• removable terminal for auxiliary and control circuit</li> </ul>	
<b>Type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>	screw-type terminals screw-type terminals
<b>Arrangement of electrical connectors for main current circuit</b>	front side
<b>Type of connectable conductor cross-sections</b>	
<ul style="list-style-type: none"> <li>• for main contacts               <ul style="list-style-type: none"> <li>— solid</li> <li>— stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG conductors for main contacts</li> </ul>	2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ) 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ) 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ) 2x (14 ... 10)

## Certificates/approvals

General Product Approval			Declaration of Conformity	Test Certificates
 CCC	 CSA	 UL		 EG-Konf.
				<a href="#">Special Test Certificate</a>
Marine / Shipping		other		
 ABS	 LRS	 RMRS	<a href="#">Miscellaneous</a>	<a href="#">Confirmation</a>
				 VDE

## 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=3RV1421-1HA10>

### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1421-1HA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1421-1HA10>

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

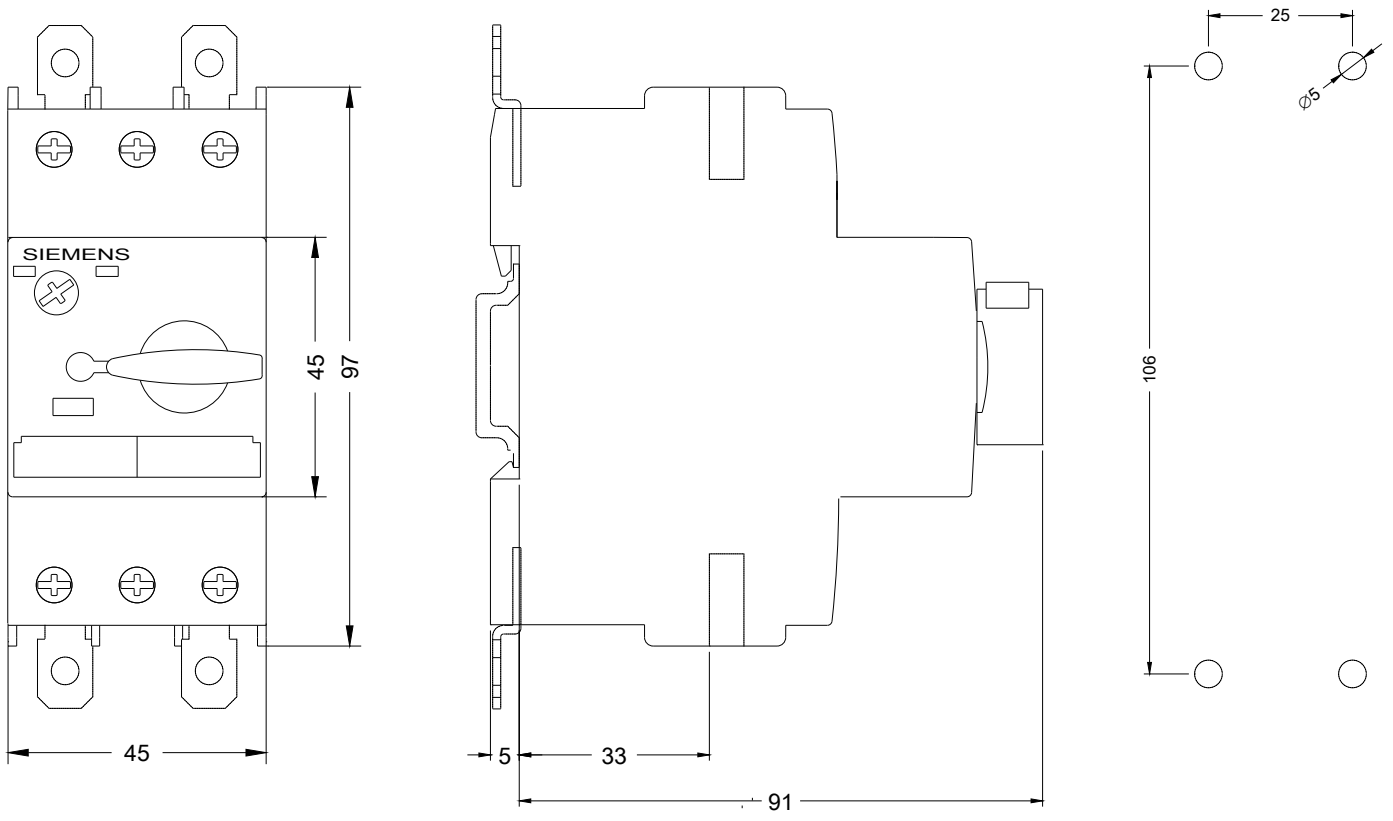
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV1421-1HA10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1421-1HA10&lang=en)

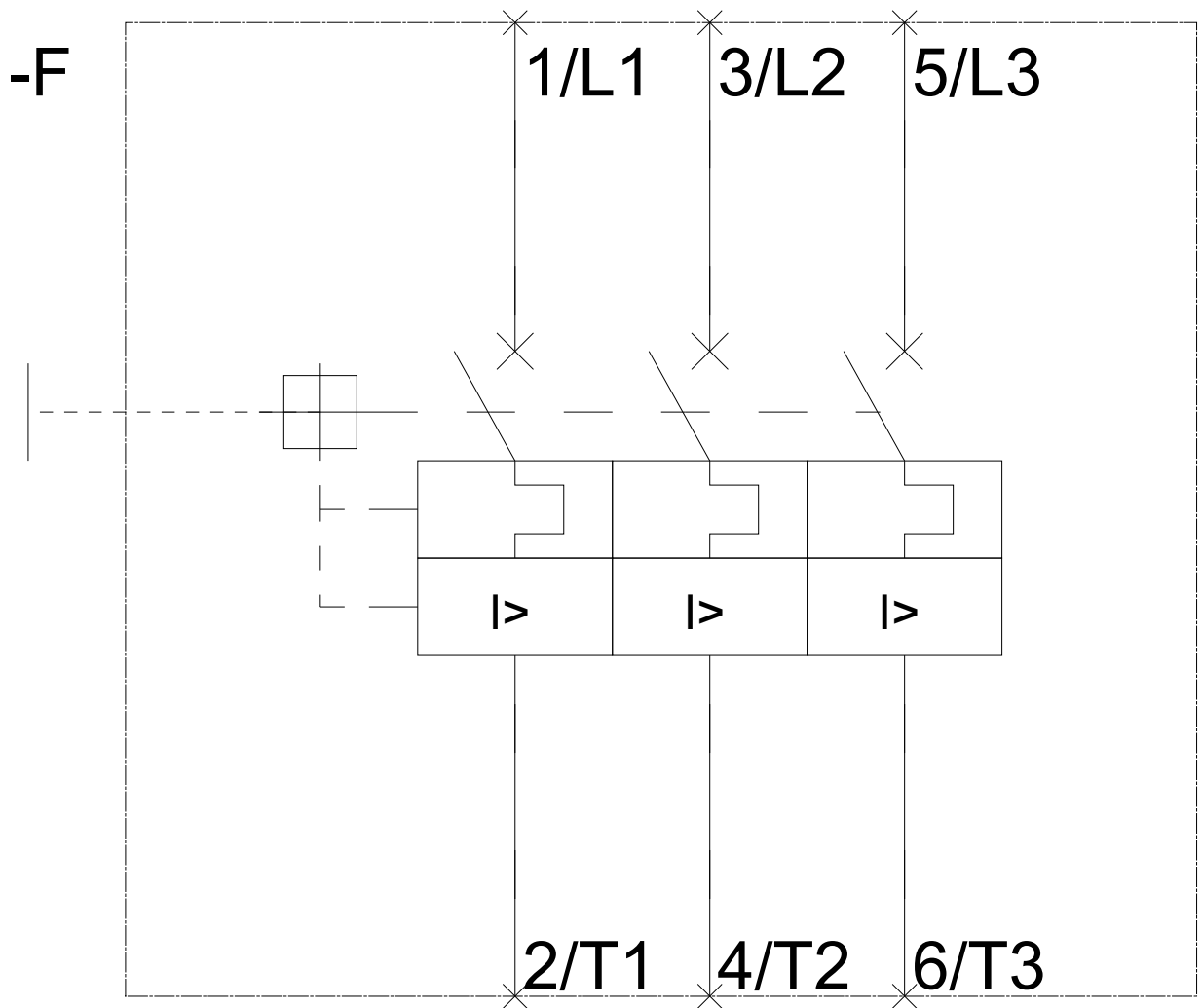
### Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1421-1HA10/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1421-1HA10&objecttype=14&gridview=view1>





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