



FUSELESS LOAD FEEDER REVERSING OPERATION, AC 400V, S0 16...22A, AC 110/120V 50/60HZ SCREW TERMINAL FOR DIN RAIL MOUNTING, WITH DIN RAIL ADAPTER TYPE OF ASSIGNMENT 2, I<sub>Q</sub> = 150KA (ALSO TYPE OF ASSIGNMENT 1) 1NO+1NC (CONTACTOR)

<b>product brand name</b>	SIRIUS
<b>product designation</b>	Reversing starter
<b>design of the product</b>	for standard rail or screw mounting
<b>product type designation</b>	3RA22
<b>manufacturer's article number</b>	
<ul style="list-style-type: none"> <li>• of the supplied contactor</li> <li>• of the supplied circuit-breakers</li> <li>• of the supplied RH assembly kit</li> <li>• of the supplied link module</li> </ul>	<a href="#">3RT2027-1AK60</a> <a href="#">3RV2021-4CA10</a> <a href="#">3RA2923-1BB1</a> <a href="#">3RA2921-1AA00</a>
<b>General technical data</b>	
<b>size of the circuit-breaker</b>	S0
<b>size of load feeder</b>	S0
insulation voltage with degree of pollution 3 at AC rated value	690 V
<b>surge voltage resistance rated value</b>	6 kV
<b>degree of protection NEMA rating</b>	other
shock resistance according to IEC 60068-2-27	6g / 11 ms
mechanical service life (switching cycles) of contactor typical	10 000 000
<b>type of assignment</b>	2
<b>type of protection according to ATEX directive 2014/34/EU</b>	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
<b>Substance Prohibittance (Date)</b>	05/01/2012
<b>Ambient conditions</b>	
<b>ambient temperature</b>	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	-20 ... +60 °C -50 ... +80 °C -50 ... +80 °C
<b>temperature compensation</b>	-20 ... +60 °C
relative humidity during operation	10 ... 95 %
<b>Main circuit</b>	
<b>number of poles for main current circuit</b>	3
<b>design of the switching contact</b>	electromechanical
<b>adjustable current response value current of the current-dependent overload release</b>	16 ... 22 A
<b>operating voltage</b>	
<ul style="list-style-type: none"> <li>• rated value</li> <li>• at AC-3 rated value maximum</li> </ul>	690 V 690 V

<b>operating frequency rated value</b>	50 ... 60 Hz	
operational current at AC-3 at 400 V rated value	22 A	
operating power at AC-3		
• at 400 V rated value	11 000 W	
<b>Control circuit/ Control</b>		
<b>type of voltage of the control supply voltage</b>	AC	
<b>control supply voltage at AC</b>		
• at 50 Hz rated value	110 V	
• at 50 Hz rated value	88 ... 121 V	
• at 60 Hz rated value	120 V	
• at 60 Hz rated value	96 ... 132 V	
<b>apparent holding power of magnet coil at AC</b>	9.8 VA	
<b>Auxiliary circuit</b>		
<b>product extension auxiliary switch</b>	Yes	
<b>Protective and monitoring functions</b>		
<b>trip class</b>	CLASS 10	
<b>design of the overload release</b>	thermal (bimetallic)	
<b>Short-circuit protection</b>		
<b>product function short circuit protection</b>	Yes	
<b>design of the short-circuit trip</b>	magnetic	
<b>conditional short-circuit current (I<sub>q</sub>)</b>		
• at 400 V according to IEC 60947-4-1 rated value	150 000 A	
<b>Installation/ mounting/ dimensions</b>		
<b>mounting position</b>	vertical	
<b>fastening method</b>	On adapter for screw and snap-on mounting on 35 mm standard mounting rail	
<b>height</b>	265 mm	
<b>width</b>	90 mm	
<b>depth</b>	120 mm	
<b>required spacing</b>		
• for grounded parts		
— forwards	32 mm	
— backwards	0 mm	
— upwards	50 mm	
— at the side	10 mm	
— downwards	10 mm	
• for live parts		
— forwards	32 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	10 mm	
— at the side	10 mm	
<b>Connections/ Terminals</b>		
<b>type of electrical connection</b>		
• for main current circuit	screw-type terminals	
• for auxiliary and control circuit	screw-type terminals	
<b>Safety related data</b>		
B10 value with high demand rate according to SN 31920	1 000 000	
<b>proportion of dangerous failures</b>		
• with high demand rate according to SN 31920	73 %	
<b>touch protection on the front according to IEC 60529</b>	finger-safe, for vertical contact from the front	
<b>Communication/ Protocol</b>		
<b>protocol is supported</b>		
• PROFINET IO protocol	No	
• PROFIsafe protocol	No	
protocol is supported AS-Interface protocol	No	
<b>Certificates/ approvals</b>		
<b>General Product Approval</b>	<b>For use in hazard-ous locations</b>	<b>Declaration of Conformity</b>



[Confirmation](#)



EG-Konf.

Declaration of Conformity	Test Certificates	Marine / Shipping
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[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



LRS

Marine / Shipping	other	Railway
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[Confirmation](#)

[Vibration and Shock](#)

#### Further information

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2220-4CB27-0AK6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-4CB27-0AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4CB27-0AK6>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2220-4CB27-0AK6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-4CB27-0AK6&lang=en)

Characteristic: Tripping characteristics, I<sub>t</sub>, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4CB27-0AK6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-4CB27-0AK6&objecttype=14&gridview=view1>

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