



FUSELESS LOAD FEEDER REVERSING OPERATION, AC 400V, S0  
18...25A, AC 110/120V 50/60HZ SCREW TERMINAL FOR BUSBAR  
SYSTEMS 60MM TYPE OF ASSIGNMENT 2,IQ = 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 60 mm busbars
<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 RS assembly kit</li> <li>• of the supplied busbar adapter</li> <li>• of the supplied link module</li> </ul>	<a href="#">3RT2027-1AK60</a> <a href="#">3RV2021-4DA10</a> <a href="#">8US1250-5AT10</a> <a href="#">8US1251-5NT10</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 Prohibitance (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>	18 ... 25 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 frequency rated value</b>	50 ... 60 Hz	
operational current at AC-3 at 400 V rated value	22 A	
operating power at AC-3 <ul style="list-style-type: none"> <li>at 400 V rated value</li> </ul>	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> <ul style="list-style-type: none"> <li>at 50 Hz rated value</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>at 60 Hz rated value</li> </ul>	110 V 88 ... 121 V 120 V 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> <ul style="list-style-type: none"> <li>at 400 V according to IEC 60947-4-1 rated value</li> </ul>	150 000 A	
<b>Installation/ mounting/ dimensions</b>		
<b>mounting position</b>	vertical	
<b>fastening method</b>	for snapping onto 60 mm busbar systems	
<b>height</b>	260 mm	
<b>width</b>	90 mm	
<b>depth</b>	155 mm	
<b>required spacing</b> <ul style="list-style-type: none"> <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>	32 mm 0 mm 50 mm 10 mm 10 mm  32 mm 0 mm 50 mm 10 mm 10 mm	
<b>Connections/ Terminals</b>		
<b>type of electrical connection</b> <ul style="list-style-type: none"> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals 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> <ul style="list-style-type: none"> <li>with high demand rate according to SN 31920</li> </ul>	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> <ul style="list-style-type: none"> <li>PROFINET IO protocol</li> <li>PROFIsafe protocol</li> </ul>	No 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](#)



Declaration of Conformity	Test Certificates	Marine / Shipping
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EG-Konf.

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



ABS



BUREAU VERITAS



LRS

Marine / Shipping	other	Railway
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PRS



RINA



RMRS



DNV-GL

[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=3RA2220-4DD27-0AK6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-4DD27-0AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4DD27-0AK6>

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

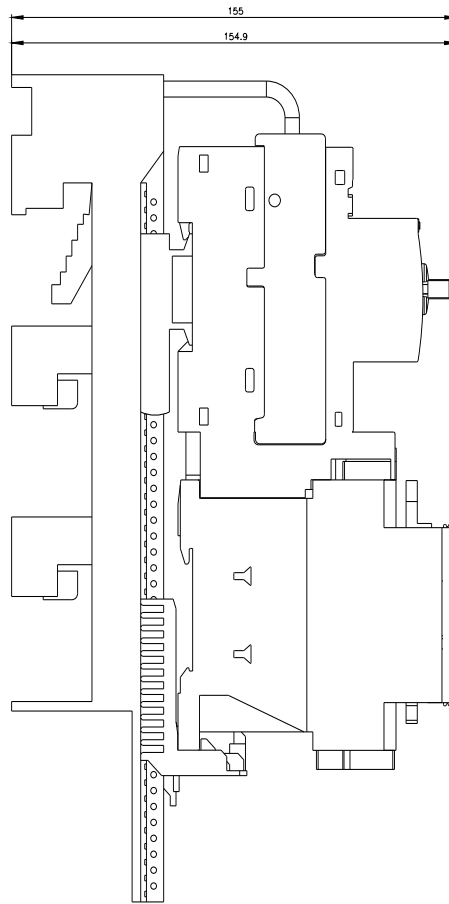
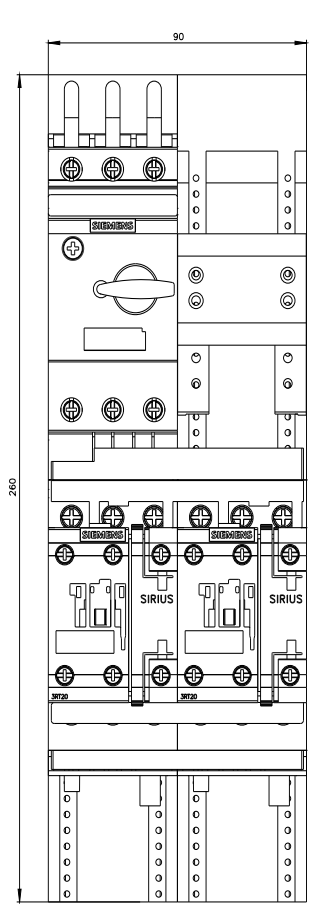
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2220-4DD27-0AK6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-4DD27-0AK6&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4DD27-0AK6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-4DD27-0AK6&objecttype=14&gridview=view1>



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