



Load feeder fuseless, Reversing duty 400 V AC, Size S0 27.0...32.0 A 24 V DC screw terminal for 60 mm busbar systems (also fulfills type of coordination 1) Type of coordination 2, I_q = 150 kA 1 NO+1 NC (contactor)

Product brand name	SIRIUS
Product designation	Reversing starter
Design of the product	for 60 mm busbars
Product type designation	3RA22
Manufacturer's article number	
• of the supplied contactor • of the supplied circuit-breakers • of the supplied RS assembly kit • of the supplied busbar adapter • of the supplied link module	3RT2027-1BB40 3RV2021-4EA10 8US1250-5AT10 8US1251-5NT10 3RA2921-1BA00

General technical data	
Size of the circuit-breaker	S0
Size of load feeder	S0
Insulation voltage	
• with degree of pollution 3 at AC rated value	690 V
Surge voltage resistance rated value	6 kV
Protection class IP	
• on the front • of the terminal	IP20 IP20

Shock resistance	
• acc. to IEC 60068-2-27	6g / 11 ms
Mechanical service life (switching cycles)	
• of contactor typical	10 000 000
Type of assignment	2
Type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
Certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001

Ambient conditions	
Temperature compensation	-20 ... +60 °C
Relative humidity during operation	10 ... 95 %

Main circuit	
Number of poles for main current circuit	3
Design of the switching contact	electromechanical
Adjustable pick-up value current of the current-dependent overload release	27 ... 32 A
Operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V
Operating frequency rated value	50 ... 60 Hz
Operating current	
• at AC-3	
— at 400 V rated value	29 A
Operating power	
• at AC-3	
— at 400 V rated value	15 000 W

Control circuit/ Control	
Type of voltage of the control supply voltage	DC
Control supply voltage at DC	
• rated value	24 V
Holding power of magnet coil at DC	5.9 W

Auxiliary circuit	
Product extension Auxiliary switch	Yes

Protective and monitoring functions	
Trip class	CLASS 10
Design of the overload release	thermal (bimetallic)

UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	14 A
Yielded mechanical performance [hp]	

- for three-phase AC motor
 - at 220/230 V rated value 10 hp
 - at 460/480 V rated value 20 hp
 - at 575/600 V rated value 25 hp

Short-circuit protection

Product function Short circuit protection	Yes
Design of the short-circuit trip	magnetic
Conditional short-circuit current (I_q) • at 400 V acc. to IEC 60947-4-1 rated value	150 000 A

Installation/ mounting/ dimensions

Mounting position	vertical
Mounting type	for snapping onto 60 mm busbar systems
Height	260 mm
Width	90 mm
Depth	165 mm
Required spacing • 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	

Connections/ Terminals

Type of electrical connection • for main current circuit	screw-type terminals
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Safety related data

B10 value • with high demand rate acc. to SN 31920	1 000 000
Proportion of dangerous failures • with high demand rate acc. to SN 31920	73 %

Certificates/ approvals

General Product Approval	For use in hazardous locations	Declaration of Conformity
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CSA



UL



ATEX



EG-Konf.

[Miscellaneous](#)

Test Certificates	Marine / Shipping
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[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



ABS



BUREAU
VERITAS



LRS



PRS

Marine / Shipping	other	Railway
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RINA



RMRS



DNVGL.COM/AF

[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=3RA2220-4ED27-0BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-4ED27-0BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4ED27-0BB4>

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

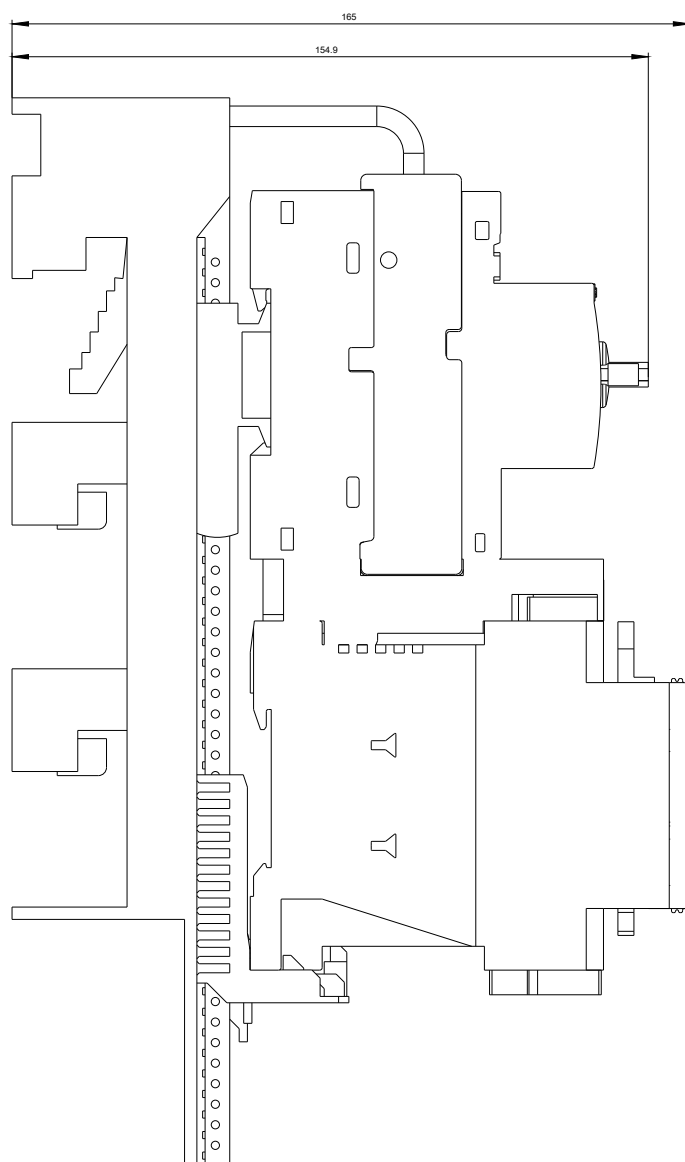
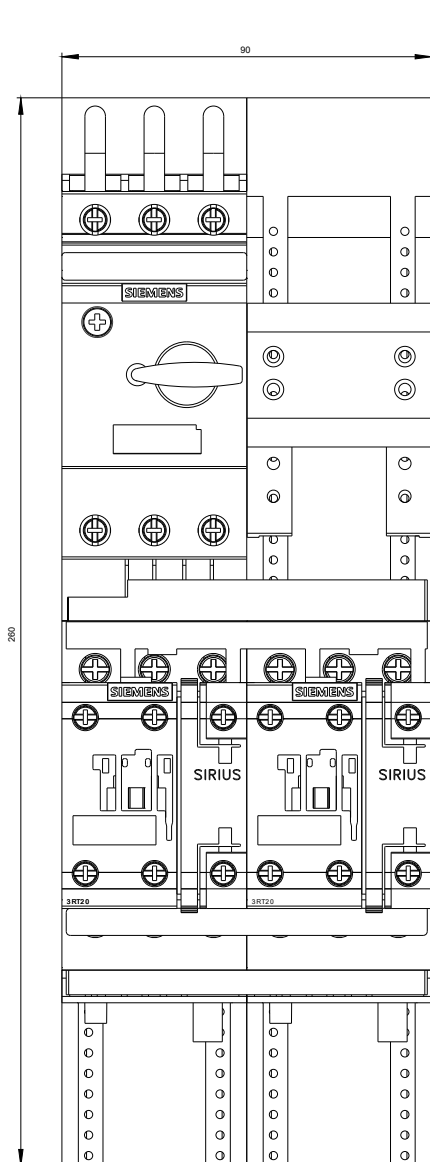
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-4ED27-0BB4&lang=en

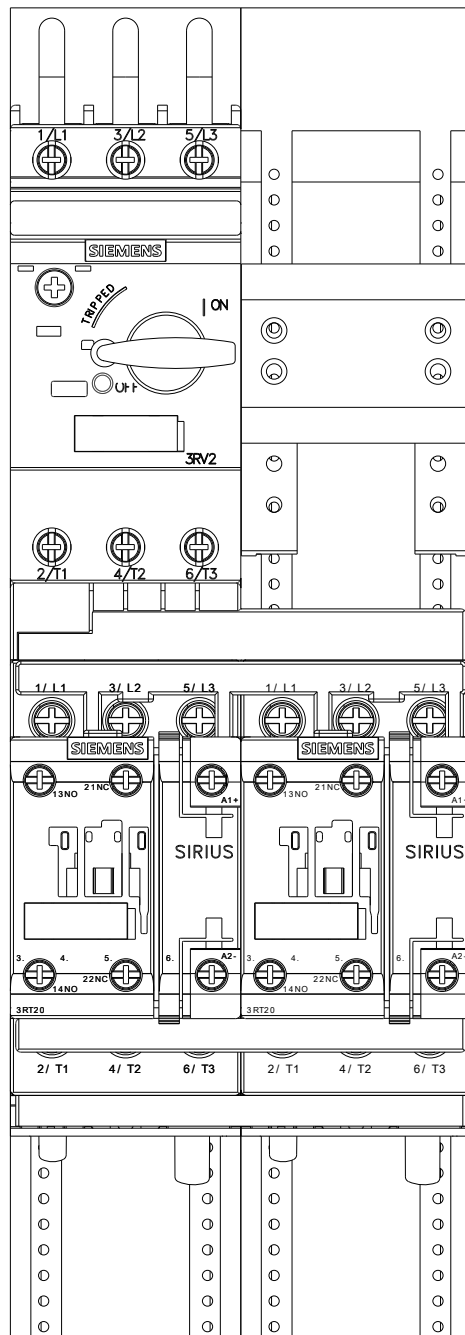
Characteristic: Tripping characteristics, I_t, Let-through current

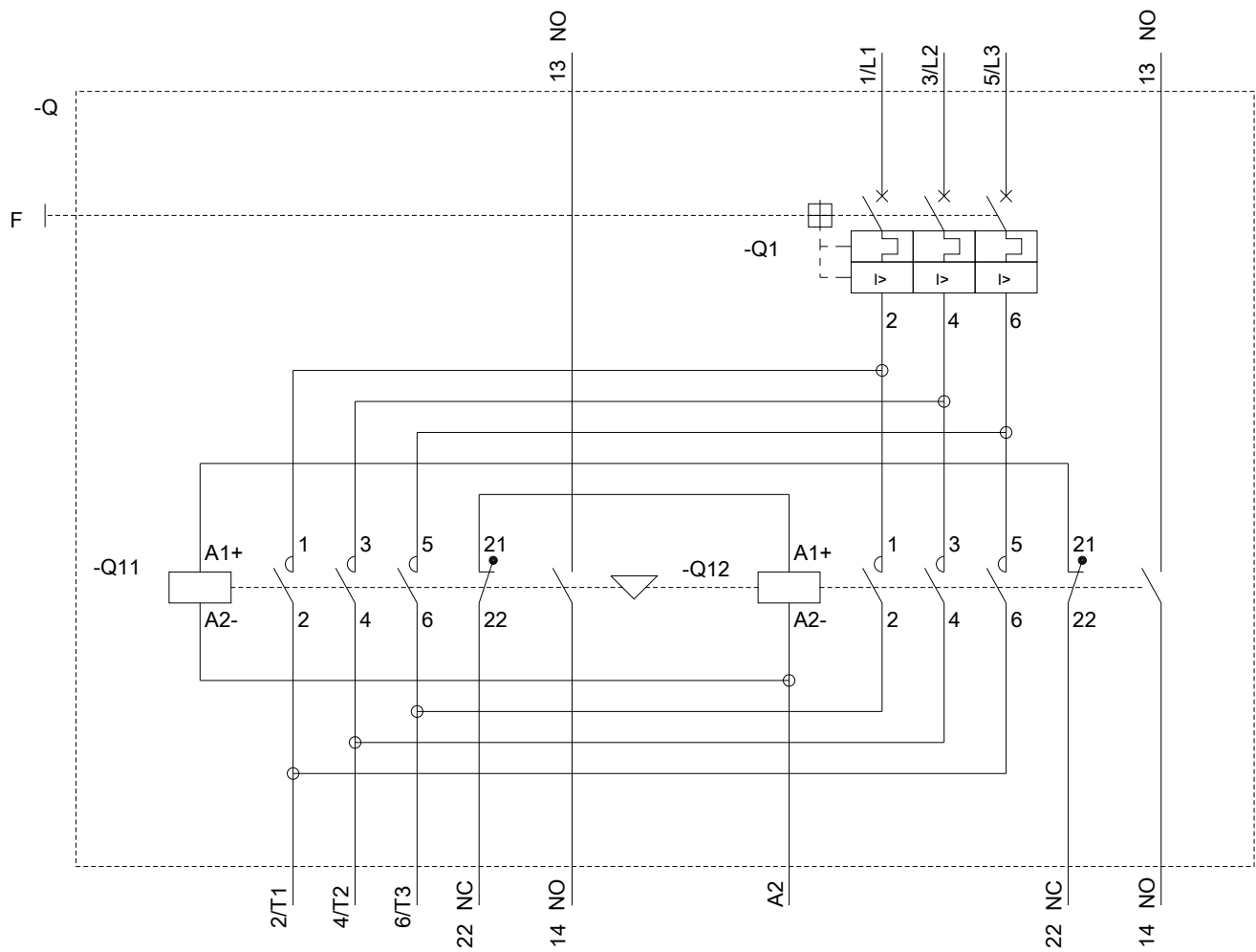
<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4ED27-0BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-4ED27-0BB4&objecttype=14&gridview=view1>







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