



Load feeder fuseless, Reversing duty 400 V AC, Size S0 5.50...8.00 A 24 V DC screw terminal for installation on standard mounting rail with standard mounting rail adapter (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 standard rail or screw mounting
product type designation	3RA22
manufacturer's article number	
• of the supplied contactor	3RT2024-1BB40
• of the supplied circuit-breakers	3RV2011-1HA10
• of the supplied RH assembly kit	3RA2923-1BB1
• of the supplied link module	3RA2921-1BA00
General technical data	
size of the circuit-breaker	S00
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
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
Substance Prohibition (Date)	01.10.2009 00:00:00
Ambient conditions	
ambient temperature	
• during operation	-20 ... +60 °C
• during storage	-50 ... +80 °C
• during transport	-50 ... +80 °C
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 current response value current of the current-dependent overload release	5.5 ... 8 A
operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V

operating frequency rated value		50 ... 60 Hz
operational current at AC-3 at 400 V rated value		6.5 A
operating power at AC-3		
• at 400 V rated value		3 000 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 3-phase AC motor		
• at 480 V rated value		8 A
yielded mechanical performance [hp]		
• for 3-phase AC motor		
— at 220/230 V rated value		2 hp
— at 460/480 V rated value		5 hp
— at 575/600 V rated value		5 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
fastening method		On adapter for screw and snap-on mounting on 35 mm standard mounting rail
height		265 mm
width		90 mm
depth		130 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
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 %
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front
Certificates/ approvals		
General Product Approval		For use in hazard-
		Declaration of Conformity

	ous locations	
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[Miscellaneous](#)

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

[Type Test Certificates/Test Report](#)



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=3RA2220-1HB24-0BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-1HB24-0BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1HB24-0BB4>

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

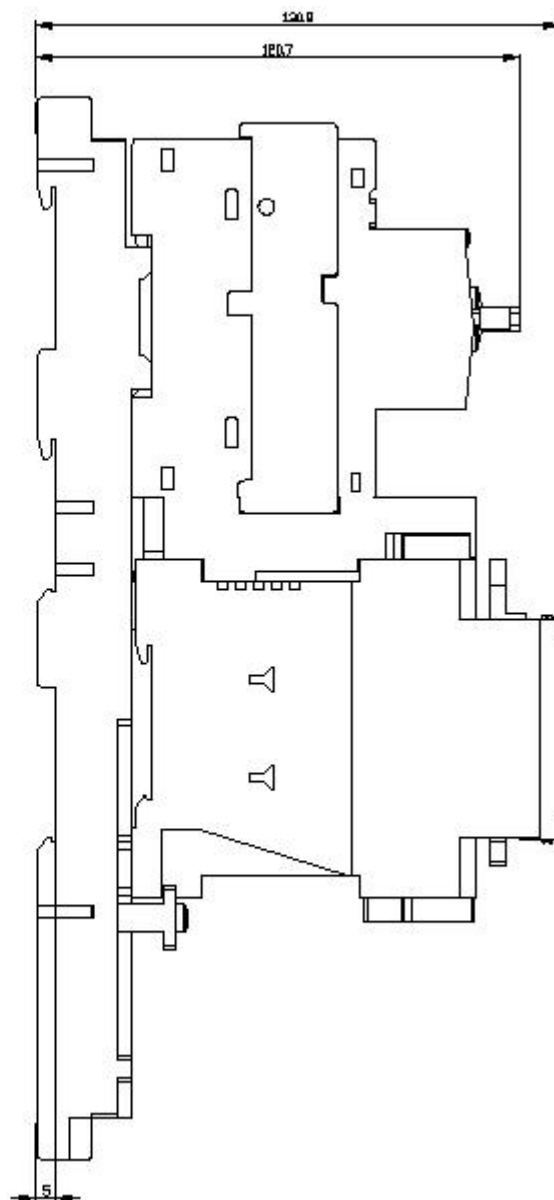
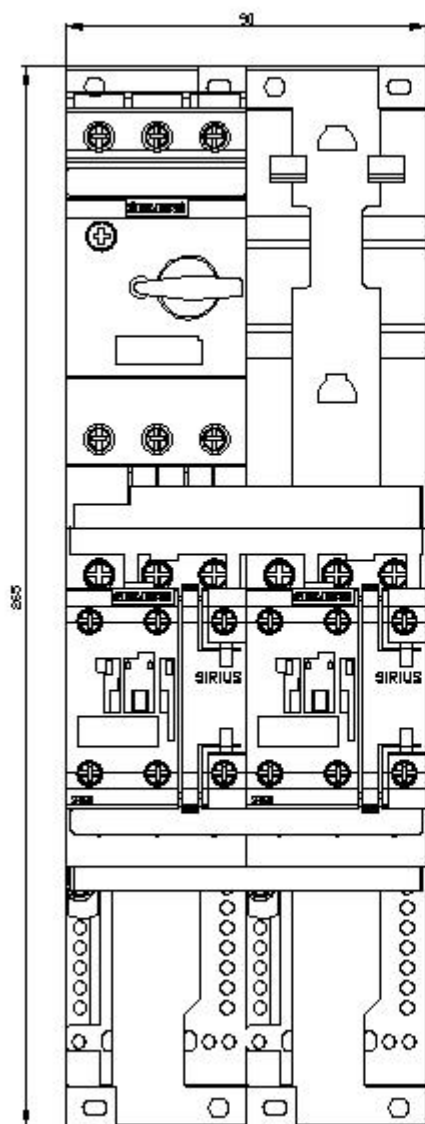
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-1HB24-0BB4&lang=en

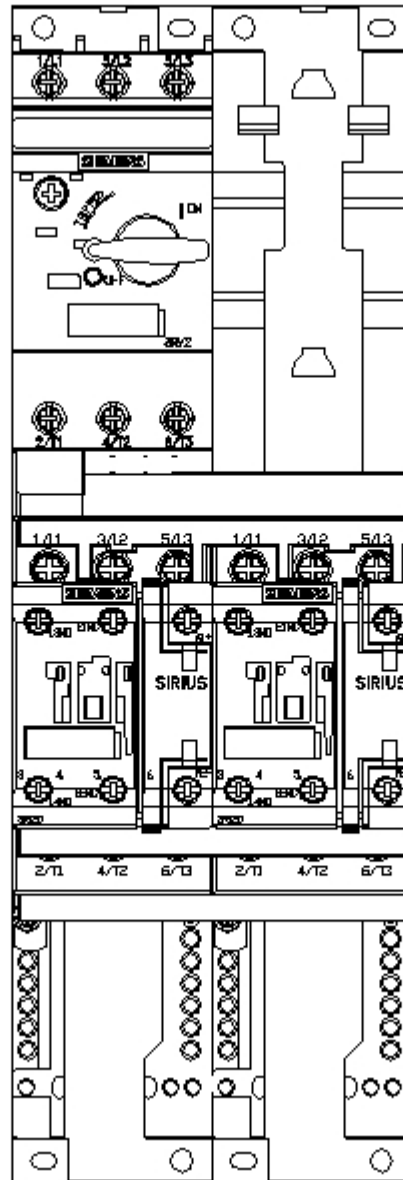
Characteristic: Tripping characteristics, I²t, Let-through current

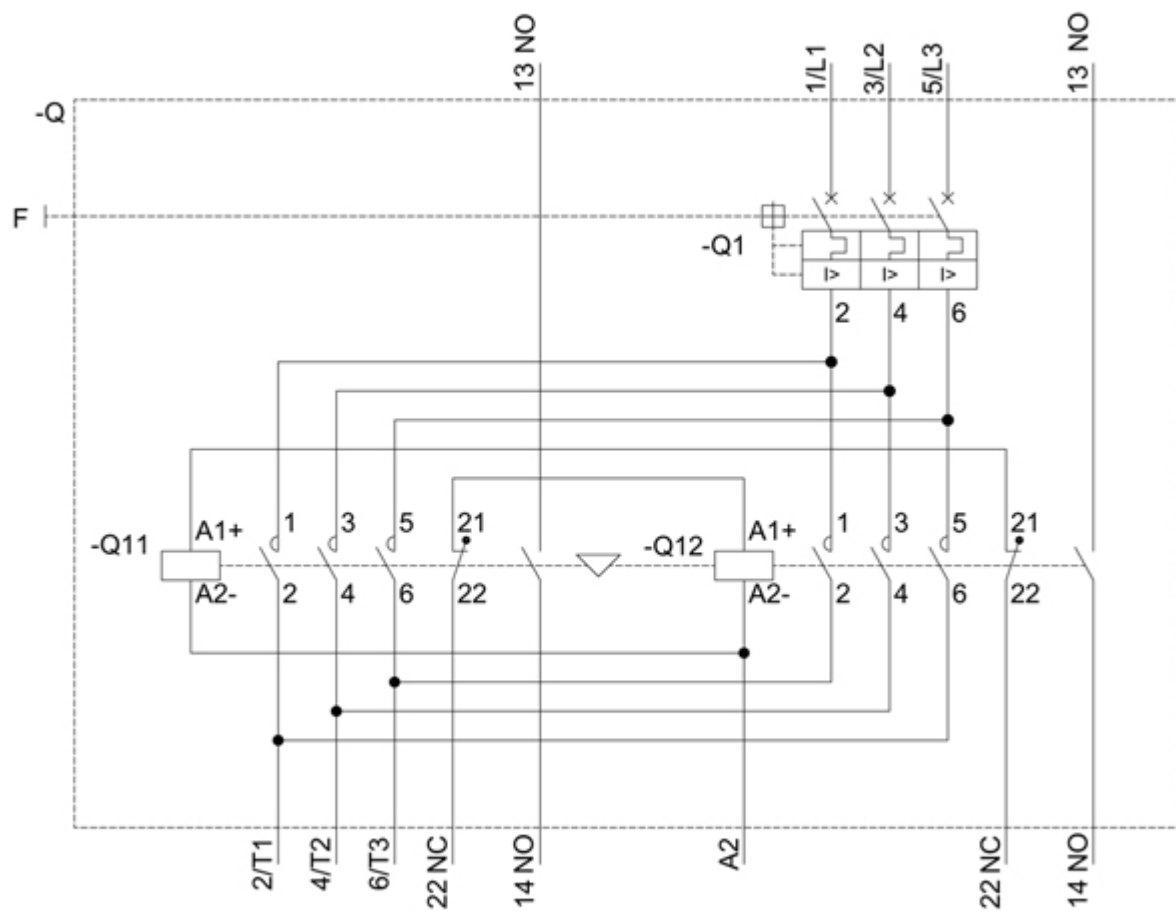
<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1HB24-0BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-1HB24-0BB4&objecttype=14&gridview=view1>







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12/15/2020 