



Load feeder fuseless, Reversing duty 400 V AC, Size S0 4.50...6.30 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 DIN-rail or screw mounting
product type designation	3RA22
manufacturer's article number	
• of the supplied contactor	3RT2024-1BB40
• of the supplied circuit-breakers	3RV2011-1GA10
• of the supplied RH assembly kit	3RA2923-1BB1
• of the supplied link module	3RA2921-1BA00
• of the supplied DIN-rail adapter	3RA2922-1AA00
General technical data	
size of the circuit-breaker	S00
size of load feeder	S0
power loss [W] for rated value of the current	
• at AC in hot operating state per pole	2.7 W
• without load current share typical	5.9 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
degree of protection NEMA rating	other
shock resistance according to IEC 60068-2-27	6g / 11 ms
mechanical service life (operating cycles) of contactor typical	10 000 000
type of assignment	2
reference code according to IEC 81346-2:2019	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Weight	1.943 kg
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	4.5 ... 6.3 A
operating voltage	
• rated value	690 V

<ul style="list-style-type: none"> • at AC-3 rated value maximum 	690 V
<ul style="list-style-type: none"> • at AC-3e rated value maximum 	690 V
operating frequency rated value	50 ... 60 Hz
operational current	
<ul style="list-style-type: none"> • at AC-3 at 400 V rated value 	6.3 A
<ul style="list-style-type: none"> • at AC-3e at 400 V rated value 	6.3 A
operating power	
<ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> — at 400 V rated value 	2 200 W
<ul style="list-style-type: none"> • at AC-3e <ul style="list-style-type: none"> — at 400 V rated value 	2 200 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)
response value current of instantaneous short-circuit trip unit	82 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul style="list-style-type: none"> • at 480 V rated value 	6.3 A
<ul style="list-style-type: none"> • at 600 V rated value 	6.3 A
yielded mechanical performance [hp]	
<ul style="list-style-type: none"> • for single-phase AC motor <ul style="list-style-type: none"> — at 110/120 V rated value 	0.25 hp
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — at 230 V rated value 	0.75 hp
<ul style="list-style-type: none"> • for 3-phase AC motor <ul style="list-style-type: none"> — at 200/208 V rated value 	2 hp
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — at 220/230 V rated value 	2 hp
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — at 460/480 V rated value 	5 hp
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — 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)	
<ul style="list-style-type: none"> • at 400 V according 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 DIN rail
height	265 mm
width	90 mm
depth	130 mm
required spacing	
<ul style="list-style-type: none"> • for grounded parts <ul style="list-style-type: none"> — forwards 	32 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — backwards 	0 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — upwards 	50 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — at the side 	10 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — downwards 	10 mm
<ul style="list-style-type: none"> • for live parts <ul style="list-style-type: none"> — forwards 	32 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — backwards 	0 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — upwards 	50 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — downwards 	10 mm
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — at the side 	10 mm
Connections/ Terminals	
type of electrical connection	

- for main current circuit
- for auxiliary and control circuit

screw-type terminals
screw-type terminals

Safety related data

product function suitable for safety function

Yes

Electrical Safety

touch protection on the front according to IEC 60529

finger-safe, for vertical contact from the front

Communication/ Protocol

protocol is supported

- PROFINET IO protocol
- PROIsafe protocol

No

No

protocol is supported AS-Interface protocol

No

Approvals Certificates

General Product Approval

For use in hazard-
ous locations

Test Certificates



[Type Test Certificates/Test Report](#)

Test Certificates

Marine / Shipping

[Special Test Certificate](#)



Marine / Shipping

other

Railway

Dangerous goods

Environment



[Confirmation](#)

[Special Test Certificate](#)

[Transport Information](#)

[Environmental Confirmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3RA2220-1GB24-0BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-1GB24-0BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1GB24-0BB4>

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

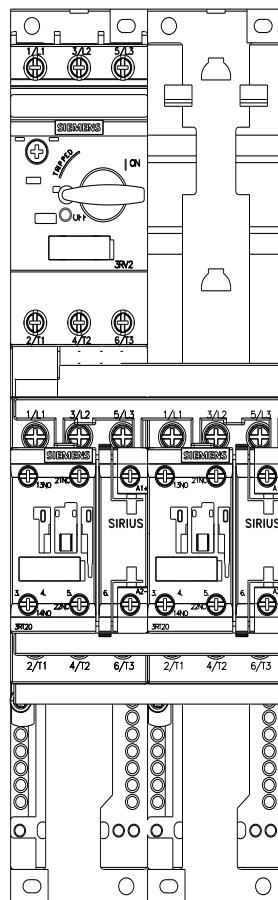
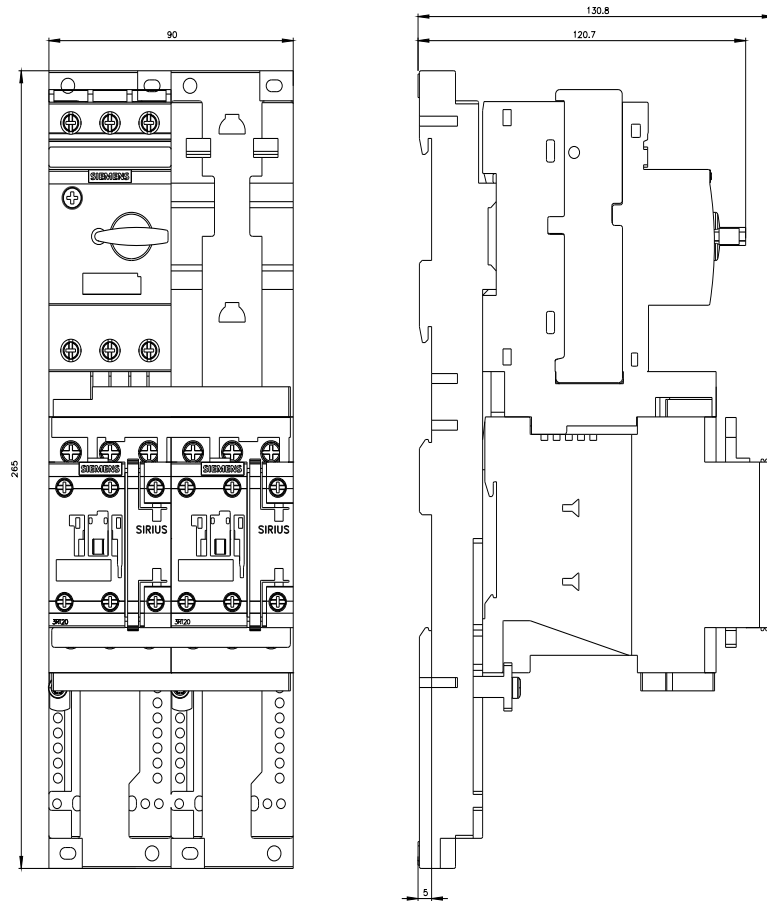
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-1GB24-0BB4&lang=en

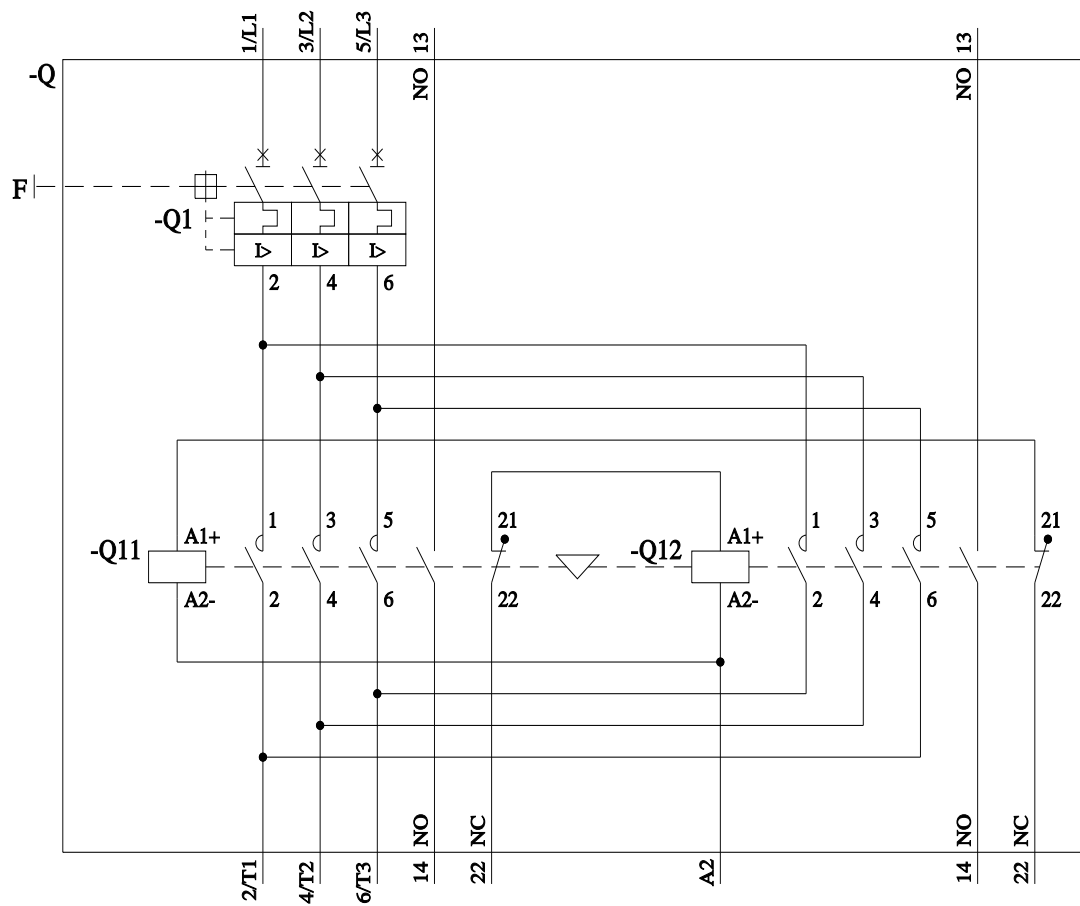
Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1GB24-0BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-1GB24-0BB4&objecttype=14&gridview=view1>





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