## Data sheet 3RA2220-1GF24-0BB4



Load feeder fuseless, Reversing duty 400 V AC, Size S0 4.50...6.30 A 24 V DC Spring-type terminal for installation on standard mounting rail with standard mounting rail adapter (also fulfills type of coordination 1) Type of coordination 2, Iq = 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	3RT2024-2BB40		
of the supplied circuit-breakers	3RV2021-1GA20		
of the supplied RH assembly kit	3RA2923-1BB2		
of the supplied link module	3RA2921-2AA00		
of the supplied standard mounting rail adapter	3RA2922-1AA00		
General technical data			
size of the circuit-breaker	S0		
size of load feeder	S0		
power loss [W] for rated value of the current			
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.7 W		
<ul> <li>without load current share typical</li> </ul>	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		
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		
reference code according to IEC 81346-2:2019	Q		
Substance Prohibitance (Date)	03/01/2017		
Ambient conditions			
ambient temperature			
<ul> <li>during operation</li> </ul>	-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-	4.5 6.3 A		
dependent overload release			
operating voltage			

<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V		
at AC-3e rated value maximum	690 V		
operating frequency rated value	50 60 Hz		
operational current			
<ul><li>at AC-3 at 400 V rated value</li></ul>	6.3 A		
• at AC-3e at 400 V rated value	6.3 A		
operating power			
• at AC-3			
— at 400 V rated value	2 200 W		
• at AC-3e	2 200 11		
— at 400 V rated value	2 200 kW		
	Z 200 RW		
Control circuit/ Control			
type of voltage of the control supply voltage	DC		
control supply voltage at DC			
rated value	24 V		
rated value	24 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			
	004		
• at 480 V rated value	6.3 A		
at 600 V rated value	6.3 A		
yielded mechanical performance [hp]			
<ul> <li>for single-phase AC motor</li> </ul>			
— at 110/120 V rated value	0.25 hp		
— at 230 V rated value	0.75 hp		
<ul> <li>for 3-phase AC motor</li> </ul>			
— at 200/208 V rated value	2 hp		
— 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		
	magnetic		
conditional short-circuit current (Iq)	450,000 A		
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	269 mm		
width	90 mm		
depth	130 mm		
required spacing			
<ul> <li>for grounded parts</li> </ul>			
— 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	spring	spring-loaded terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>	spring	spring-loaded terminals			
Safety related data					
B10 value with high demand rate according to SN 31920	1 000	1 000 000			
proportion of dangerous failures					
with high demand rate according to SN 31920	73 %	73 %			
touch protection on the front according to IEC 60529	finger	finger-safe, for vertical contact from the front			
Communication/ Protocol					
protocol is supported					
<ul> <li>PROFINET IO protocol</li> </ul>	No	No			
PROFIsafe protocol	No	No			
protocol is supported AS-Interface protocol	No	No			
Certificates/ approvals					
General Product Approval		For use in hazard-	Declaration of Conformity		

Confirmation







ous locations





**Test Certificates** 

Marine / Shipping

Type Test Certificates/Test Report Special Test Certificate









Marine / Shipping





Confirmation

other

Vibration and Shock

Railway

Transport Information

**Dangerous Good** 

## **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RA2220-1GF24-0BB4

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2220-1GF24-0BB4}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1GF24-0BB4

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

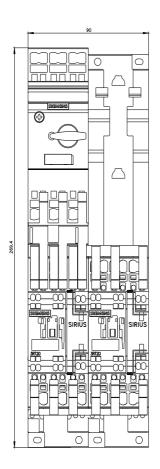
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2220-1GF24-0BB4&lang=en

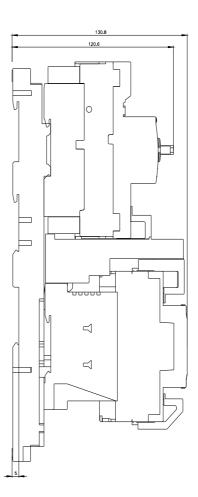
Characteristic: Tripping characteristics, I2t, Let-through current

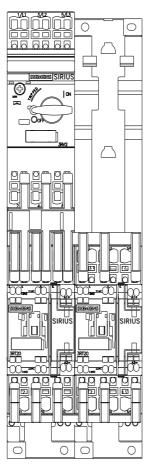
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1GF24-0BB4/char

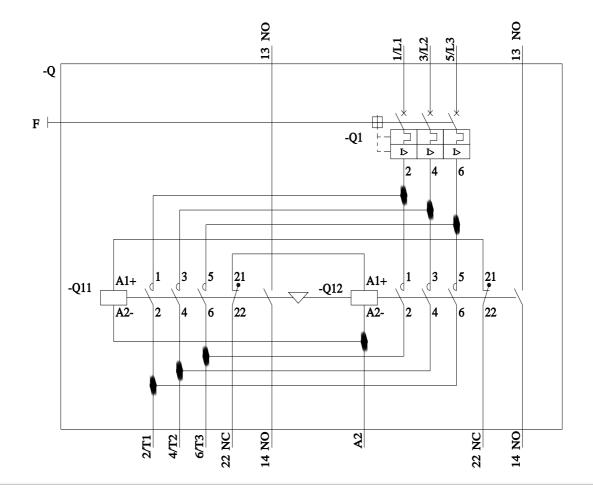
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-1GF24-0BB4&objecttype=14&gridview=view1









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