## SIEMENS

## Data sheet

## 3RA2220-1KF24-0BB4



Load feeder fuseless, Reversing duty 400 V AC, Size S0 9.00...12.5 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			
<ul> <li>of the supplied contactor</li> </ul>	<u>3RT2024-2BB40</u>		
<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2021-1KA20</u>		
<ul> <li>of the supplied RH assembly kit</li> </ul>	<u>3RA2923-1BB2</u>		
<ul> <li>of the supplied link module</li> </ul>	<u>3RA2921-2AA00</u>		
<ul> <li>of the supplied standard mounting rail adapter</li> </ul>	<u>3RA2922-1AA00</u>		
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>	3.4 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		
<ul> <li>during storage</li> </ul>	-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	9 12.5 A		
operating voltage			
rated value	690 V		

at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current	
• at AC-3 at 400 V rated value	12 A
at AC-3e at 400 V rated value	12 A
operating power	
• at AC-3	
— at 400 V rated value	5 500 W
• at AC-3e	
— at 400 V rated value	5 500 kW
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	163 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	11 A
<ul> <li>at 600 V rated value</li> </ul>	10 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	0.75 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	- '
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp
Short-circuit protection	· · · · · ·
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (lq)	indgrietto
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	
for grounded parts	
- forwards	32 mm
— backwards	0 mm
— upwards	50 mm
— at the side	10 mm
— at the side — downwards	10 mm
<ul> <li>for live parts</li> <li>forwards</li> </ul>	32 mm
	32 mm 0 mm
— backwards	
— upwards	50 mm
— downwards	10 mm
— at the side	10 mm

<b>Connections/ Terminals</b>						
type of electrical conne	ection					
<ul> <li>for main current ci</li> </ul>	ircuit		spring	-loaded terminals		
<ul> <li>for auxiliary and control circuit</li> </ul>			spring-loaded terminals			
Safety related data						
B10 value with high demand rate according to SN 31920			1 000 000			
proportion of dangerou						
with high demand rate according to SN 31920			73 %			
touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front			
Communication/ Protoco	ol		Ū			
protocol is supported						
PROFINET IO pro	otocol		No			
<ul> <li>PROFIsafe protoc</li> </ul>			No			
protocol is supported AS			No			
Certificates/ approvals						
General Product Appro	oval			For use in hazard- ous locations	Declaration of Confo	rmity
Confirmation		EAC	1	K ATEX	CE EG-Konf.	UK CA
Test Certificates						
rest certificates		Marine / Shippi	ing			
Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> ate	Marine / Shippi	ing	BUREAU VERITAS	Hoyd's Register uis	PRS
Type Test Certific-		۲	ing	BUREAU VERITAS	Lits	PFS Dangerous Good
Type Test Certific- ates/Test Report		۲	ing	Other Confirmation		PRS Dangerous Good Transport Information
Type Test Certific- ates/Test Report         Marine / Shipping         Warine / Shipping         With the second seco	ate	ABS	ing		Railway	
Type Test Certific- ates/Test Report         Marine / Shipping         Warine / Shipping         Event         Further information         Siemens has decided t	ate	ABS		Confirmation	Railway	
Type Test Certific- ates/Test Report         Marine / Shipping         Display         Eurther information         Siemens has decided t https://press.siemens.co Siemens is working on Please contact your loca EAC relevant market (ott)	ate	Ket (see here). e/siemens-wind-dor rent EAC certifica status of validity of	wn-russ ites. the EAC	Confirmation	Railway	Transport Information
Type Test Certific- ates/Test Report         Marine / Shipping         Image: Constraint of the state of	ate	ket (see here). e/siemens-wind-do rent EAC certifica status of validity of EAEU member sta	wn-russ ites. the EAC	Confirmation	Railway Vibration and Shock	Transport Information

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2220-1KF24-0BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-1KF24-0BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1KF24-0BE

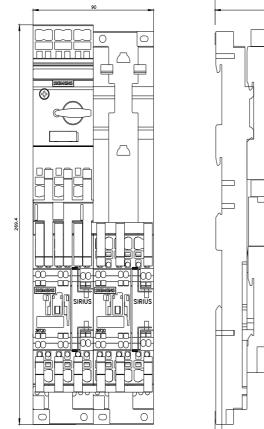
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

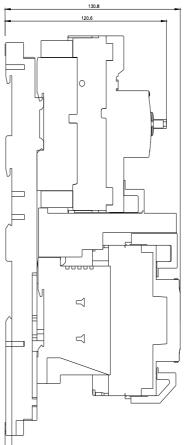
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2220-1KF24-0BB4&lang=en

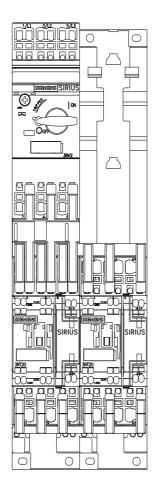
Characteristic: Tripping characteristics, I2t, Let-through current

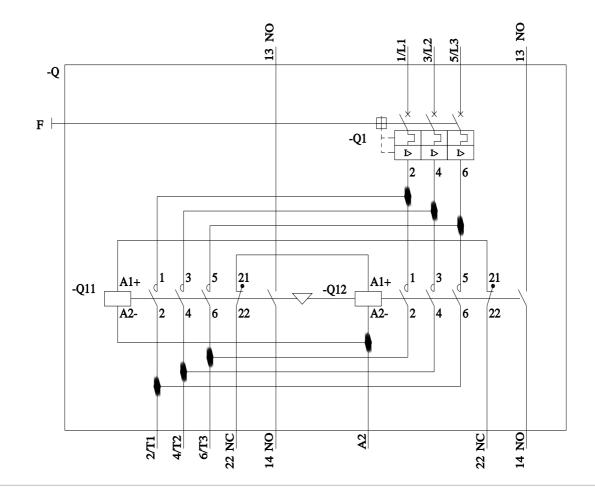
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1KF24-0BB4/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-1KF24-0BB4&objecttype=14&gridview=view1









last modified:

4/18/2023 🖸