SIEMENS

Data sheet

3RA2220-4EF27-0BB4

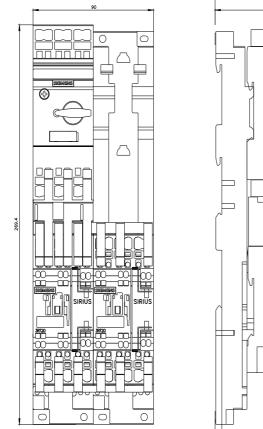


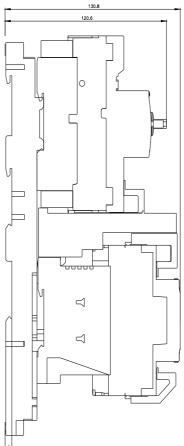
Load feeder fuseless, Reversing duty 400 V AC, Size S0 27.0...32.0 A 24 V DC Spring-type terminal for installation on standard mounting rail with standard mounting rail adapter (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

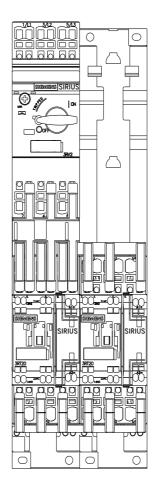
product brand name	SIRIUS
product designation	Reversing starter
design of the product	for standard rail or screw mounting
product type designation	3RA22
manufacturer's article number	
 of the supplied contactor 	<u>3RT2027-2BB40</u>
 of the supplied circuit-breakers 	<u>3RV2021-4EA20</u>
 of the supplied RH assembly kit 	<u>3RA2923-1BB2</u>
 of the supplied link module 	<u>3RA2921-2AA00</u>
 of the supplied standard mounting rail adapter 	<u>3RA2922-1AA00</u>
General technical data	
size of the circuit-breaker	S0
size of load feeder	SO
power loss [W] for rated value of the current	
 at AC in hot operating state per pole 	6.7 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
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)	10/01/2009
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	27 32 A
operating voltage	
rated value	690 V

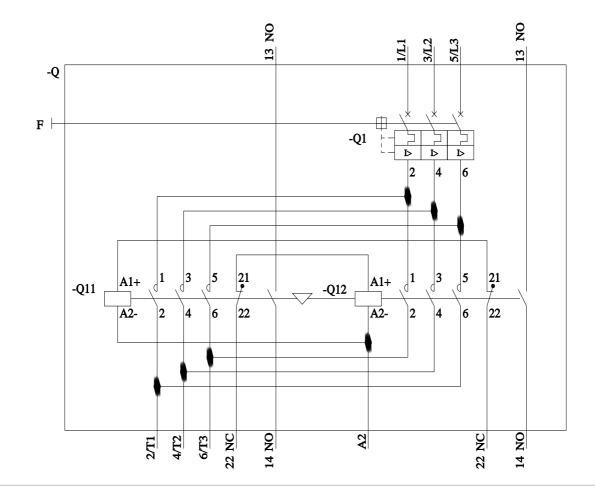
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current	
• at AC-3 at 400 V rated value	29 A
at AC-3e at 400 V rated value	29 A
operating power	
• at AC-3	
— at 400 V rated value	15 000 W
• at AC-3e	
— at 400 V rated value	15 000 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	400 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	27 A
• at 600 V rated value	27 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	2 hp
— at 230 V rated value	5 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	10 hp
— at 460/480 V rated value	20 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	
 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
— 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-loaded terminals			
 for auxiliary and control circuit 		spring-loaded terminals			
Safety related data					
B10 value with high demand rate according to	SN 31920	1 000 000			
proportion of dangerous failures					
with high demand rate according to SN 3	1920	73 %			
touch protection on the front according to I	EC 60529	finger-safe, for vertical contact from the front			
Communication/ Protocol					
protocol is supported					
 PROFINET IO protocol 		No			
 PROFIsafe protocol 		No			
protocol is supported AS-Interface protocol	1	No			
Certificates/ approvals					
General Product Approval		For use in hazard- ous locations	Declaration of Confo	rmity	
Confirmation	EHC	K ATEX	UK CA	CE EG-Konf.	
Test Certificates	Marine / Shipping	3			
Special Test Certific- ate Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS	Lloyd's Register	PRS	
Marine / Shipping		other	Railway	Dangerous Good	
	DNV-GL Brail COLOR	<u>Confirmation</u>	Vibration and Shock	Transport Information	
Further information Siemens has decided to exit the Russian ma	arket (see here).				
https://press.siemens.com/global/en/pressrelea Siemens is working on the renewal of the cu Please contact your local Siemens office on the EAC relevant market (other than the sanctioner Information on the packaging https://support.industry.siemens.com/cs/ww/en Information- and Downloadcenter (Catalogs https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/C Cax online generator http://support.automation.siemens.com/WW/C/ Service&Support (Manuals, Certificates, Cha	se/siemens-wind-down irrent EAC certificate a status of validity of the d EAEU member states (view/109813875 , Brochures,) atalog/product?mlfb=31 Xorder/default.aspx?la aracteristics, FAQs,	s. e EAC certification if you in s Russia or Belarus). RA2220-4EF27-0BB4 ang=en&mlfb=3RA2220-4E)		ply these products to an	
https://support.industry.siemens.com/cs/ww/en Image database (product images, 2D dimen- http://www.automation.siemens.com/bilddb/cax	sion drawings, 3D mo de.aspx?mlfb=3RA22	dels, device circuit diagr	ams, EPLAN macros,)		
https://support.industry.siemens.com/cs/ww/en Further characteristics (e.g. electrical endur	/ps/3RA2220-4EF27-0 ance, switching frequ	lency)			
Characteristic: Tripping characteristics, I ² t, https://support.industry.siemens.com/cs/ww/en	Let-through current /ps/3RA2220-4EF27-01 ance, switching frequ	BB4/char Jency)	B4&objecttype=14&gridview=	=view1	









last modified:

4/18/2023 🖸