## SIEMENS

## Data sheet

## 3RA2220-4BH27-0BB4

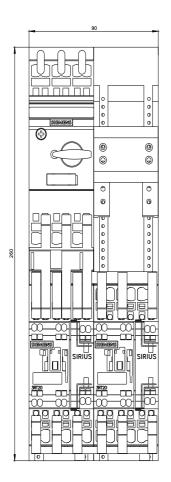


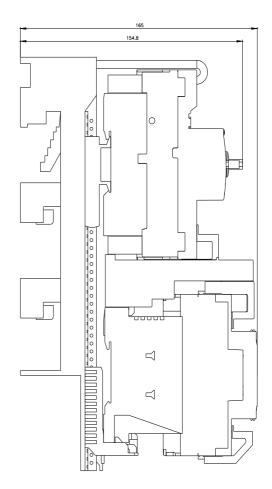
Load feeder fuseless, Reversing duty 400 V AC, Size S0 13.0...20.0 A 24 V DC Spring-type terminal for 60 mm busbar systems (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

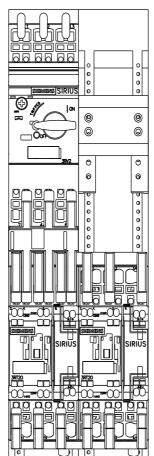
A. C.	
product brand name	SIRIUS
product designation	Reversing starter
design of the product	for 60 mm busbars
product type designation	3RA22
manufacturer's article number	
<ul> <li>of the supplied contactor</li> </ul>	<u>3RT2027-2BB40</u>
<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2021-4BA20</u>
<ul> <li>of the supplied RS assembly kit</li> </ul>	<u>3RA2923-1DB2</u>
<ul> <li>of the supplied link module</li> </ul>	<u>3RA2921-2AA00</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>	5.8 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)	10/01/2009
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- dependent overload release	13 20 A
operating voltage	
rated value	690 V
• at AC-3 rated value maximum	690 V

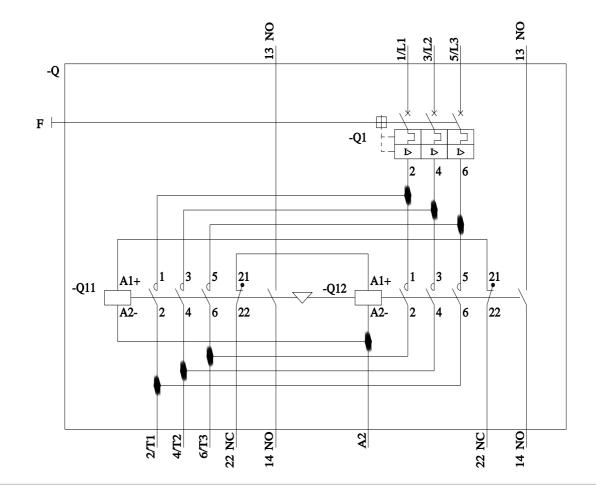
a at AC 2a rated value mavimum	690 V
at AC-3e rated value maximum	590 V 50 60 Hz
operating frequency rated value operational current	
at AC-3 at 400 V rated value	20 A
<ul> <li>at AC-3 at 400 V rated value</li> <li>at AC-3e at 400 V rated value</li> </ul>	20 A
operating power	20 A
• at AC-3	
- at 400 V rated value	7 500 W
• at AC-3e	7 500 W
- at 400 V rated value	7 500 kW
Control circuit/ Control	7 000 KW
type of voltage of the control supply voltage	DC
control supply voltage at DC	50
• 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	260 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	20 A
at 600 V rated value	20 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	1.5 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	, the second
— at 200/208 V rated value	7.5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (lq)	
• at 400 V according to IEC 60947-4-1 rated value	150 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	for snapping onto 60 mm busbar systems
height	260 mm
width	90 mm
depth	165 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	

<ul> <li>for main current c</li> </ul>			spring-loaded terminals					
<ul> <li>for auxiliary and c</li> </ul>	control circuit		spring-loaded terminals					
Safety related data								
B10 value with high dem	nand rate according to SN	N 31920	1 000 000					
proportion of dangero	proportion of dangerous failures							
<ul> <li>with high demand</li> </ul>	73 %							
touch protection on th	touch protection on the front according to IEC 60529			vertical contact	from the front			
Communication/ Protoc	ol							
protocol is supported								
<ul> <li>PROFINET IO pro</li> </ul>	otocol		No					
<ul> <li>PROFIsafe protocome</li> </ul>	col		No					
protocol is supported AS	S-Interface protocol		No					
Certificates/ approvals								
General Product Appr	oval			For use in hazard- ous locations Declaration of Conformity				
<u>Confirmation</u>	(U) u	EAC	<	Ex ATEX	UK CA	CE EG-Konf.		
Test Certificates		Marine / Shippi	ipping					
<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	(     		Lloyds Register urs	PRS		
Marine / Shipping			other		Railway	Dangerous Good		
RINA	KMRS		Co	nfirmation	Vibration and Shock	Transport Information		
Further information								
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