## SIEMENS

## Data sheet

## 3RA2220-1FD24-0AP0

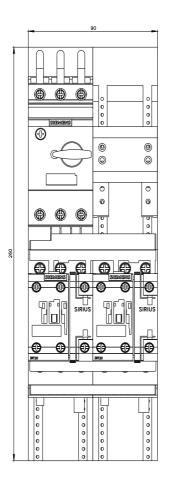


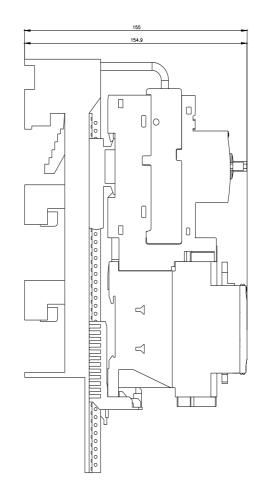
Load feeder fuseless, Reversing duty 400 V AC, Size S0 3.50...5.00 A 230 V AC screw terminal for 60 mm busbar systems (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

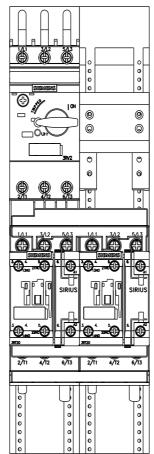
0 0 0 0			
product brand name	SIRIUS		
product designation	Reversing starter		
design of the product	for 60 mm busbars		
product type designation	3RA22		
manufacturer's article number			
<ul> <li>of the supplied contactor</li> </ul>	<u>3RT2024-1AP00</u>		
<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2011-1FA10</u>		
<ul> <li>of the supplied RS assembly kit</li> </ul>	<u>3RA2923-1DB1</u>		
<ul> <li>of the supplied link module</li> </ul>	<u>3RA2921-1AA00</u>		
General technical data			
size of the circuit-breaker	S00		
size of load feeder	SO		
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>	7.6 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		
<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	3.5 5 A		
operating voltage			
rated value	690 V		
• at AC-3 rated value maximum	690 V		

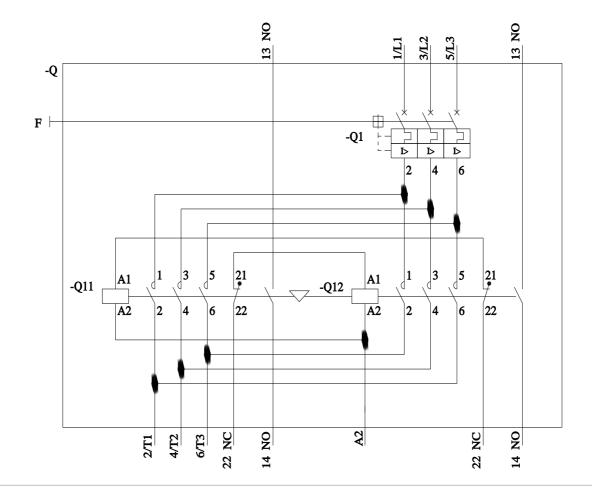
• at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current	
at AC-3 at 400 V rated value	5 A
at AC-3e at 400 V rated value	5 A
operating power	
• at AC-3	
— at 400 V rated value	1 500 W
• at AC-3e	
— at 400 V rated value	1 500 kW
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	230 V
• at 50 Hz rated value	230 230 V
apparent holding power of magnet coil at AC	7.6 VA
• at 50 Hz	7.6 VA
inductive power factor with the holding power of the coil	0.25
• at 50 Hz	0.25
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	65 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	5 A
• at 600 V rated value	5 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	0.5 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	1.5 hp
— at 460/480 V rated value	3 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
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	155 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

	40					
— downwards	10 m					
— at the side	10 m	m				
Connections/ Terminals	-					
type of electrical connection						
• for main current circuit		screw-type terminals				
<ul> <li>for auxiliary and control circuit</li> </ul>	screv	screw-type terminals				
Safety related data	_					
B10 value with high demand rate according to SN 31920	1 000	1 000 000				
proportion of dangerous failures						
<ul> <li>with high demand rate according to SN 31920</li> </ul>	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					
PROFIsafe protocol	No					
protocol is supported AS-Interface protocol	No					
Certificates/ approvals						
		For use in hazard-	Declaration of Confer	un lás c		
General Product Approval		ous locations	Declaration of Confor	mity		
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Test Certificates Marine / Sh	ipping					
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Marine / Shipping		other	Railway			
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	*	Confirmation	Vibration and Shock			
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RINA RMRS DWOLCOM	100					
urther information						
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind		sian-husiness				
<u>https://press.siemens.com/giobal/en/pressrelease/siemens-wind-down-russian-business</u> Siemens is working on the renewal of the current EAC certificates.						
Please contact your local Siemens office on the status of validity		C certification if you intend	to import or offer to supp	ly 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?m	nlfb=3RA22	20-1FD24-0AP0				
Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-1FD24-0AP0 Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1FD24-0AP0						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)						
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-1FD24-0AP0⟨=en						
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through cur https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1FI		char				
Further characteristics (e.g. electrical endurance, switching						
http://www.automation.siemens.com/bilddb/index.aspx?view=Se	-arch&mlfh	=3RA2220-1FD24-0AP08	obiecttype=14&aridyiew=	view1		
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