## SIEMENS

## Data sheet

## 3RA2220-4DF27-0AP0

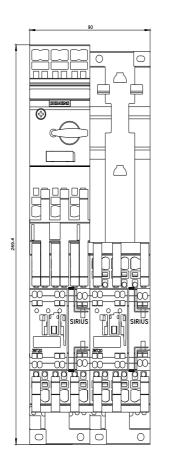


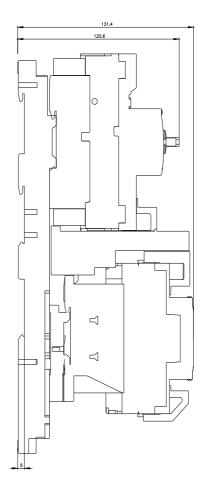
Load feeder fuseless, Reversing duty 400 V AC, Size S0 18...25 A 230 V AC Spring-type terminal for installation on standard mounting rail with standard mounting rail adapter (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

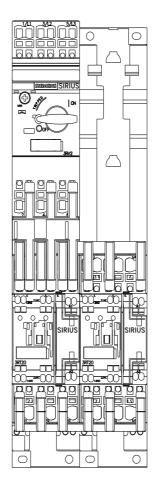
product brand name	SIRIUS			
product designation	Reversing starter			
design of the product	for standard rail or screw mounting			
product type designation	3RA22			
manufacturer's article number				
<ul> <li>of the supplied contactor</li> </ul>	<u>3RT2027-2AP00</u>			
<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2021-4DA20</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	SO			
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>	9.8 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	18 25 A			
operating voltage				
rated value	690 V			

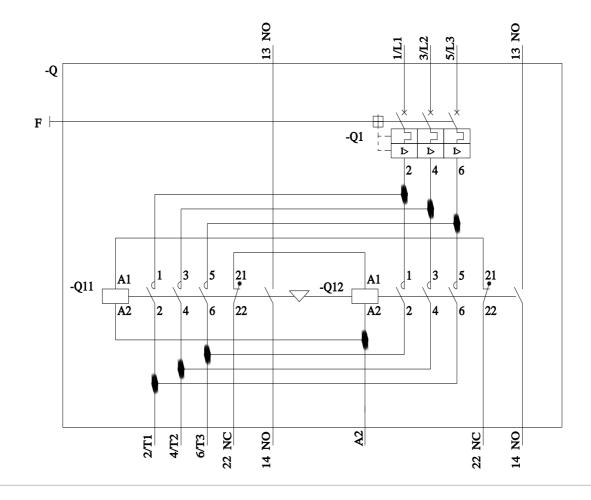
	<b>200</b> ) /			
at AC-3 rated value maximum	690 V			
at AC-3e rated value maximum	690 V			
operating frequency rated value	50 60 Hz			
operational current				
• at AC-3 at 400 V rated value	25 A			
• at AC-3e at 400 V rated value	25 A			
operating power				
• at AC-3				
— at 400 V rated value	11 000 W			
• at AC-3e				
— at 400 V rated value	11 000 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	9.8 VA			
• at 50 Hz	9.8 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	325 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	25 A			
• at 600 V rated value	25 A			
yielded mechanical performance [hp]				
<ul> <li>for single-phase AC motor</li> </ul>				
— at 110/120 V rated value	2 hp			
— at 230 V rated value	3 hp			
<ul> <li>for 3-phase AC motor</li> </ul>				
— at 200/208 V rated value	7.5 hp			
— at 220/230 V rated value	7.5 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 (lq)				
• 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			
<ul> <li>for live parts</li> </ul>				
— forwards	32 mm			
— backwards	0 mm			
— upwards	50 mm			

— downwards	10						
— at the side		10 mm 10 mm					
Connections/ Terminals	10 111						
type of electrical connection	_						
for main current circuit	spring	apring loaded terminals					
for auxiliary and control 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	1 000	1 000 000					
with high demand rate according to SN 31920	73 %	72.0/					
touch protection on the front according to IEC 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	No						
Certificates/ approvals	NO						
		For you in borowd					
General Product Approval		For use in hazard- ous locations	Declaration of Conformity	,			
	•	/c.\	((	ŬK			
		VCX/					
UL		ATEX	EG-Konf.	CH			
Test Certificates Marine / Shipp	oing						
Type Test Certific- Special Test Certific-		SU YES		(SPIR)			
ates/Test Report ate		<u> </u>	Lloyds	(33)			
a start	,		register				
ABS		BUREAU	LRS	PRS			
		VENTIAS					
Marina / Chinning		other	Beilway				
Marine / Shipping		other	Railway				
		Confirmation	Vibration and Shock				
	1						
	,						
RINA RMRS EMOLECIMA							
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=3RA2220-4DF27-0AP0							
Cax online generator							
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-4DF27-0AP0 Service&Support (Manuals, Certificates, Characteristics, FAQs,)							
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4DF27-0AP0							
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-4DF27-0AP0⟨=en							
<u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mitb=3k/</u> Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through currer		DIZI-UMPUQIAIIQ=EII					
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4DF2	7-0AP0/c						
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-4DF27-0AP0&objecttype=14&gridview=view1							









last modified:

4/18/2023 🖸