SIEMENS

Data sheet

3RA2220-4CF27-0AP0

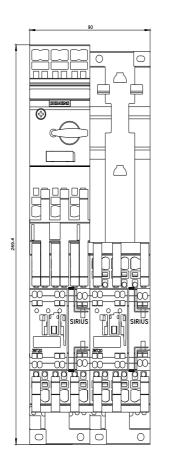


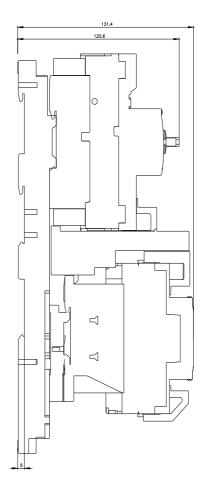
Load feeder fuseless, Reversing duty 400 V AC, Size S0 16...22 A 230 V AC Spring-type terminal for installation on standard mounting rail with standard mounting rail adapter (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

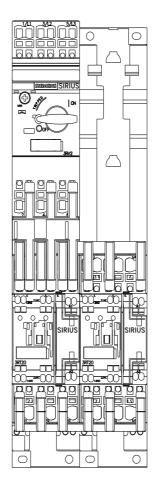
product brand name	SIRIUS			
product designation	Reversing starter			
design of the product	for standard rail or screw mounting			
product type designation	3RA22			
manufacturer's article number				
 of the supplied contactor 	<u>3RT2027-2AP00</u>			
 of the supplied circuit-breakers 	<u>3RV2021-4CA20</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	SO			
size of load feeder	SO			
power loss [W] for rated value of the current				
 at AC in hot operating state per pole 	5.8 W			
 without load current share typical 	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	16 22 A			
operating voltage				
rated value	690 V			

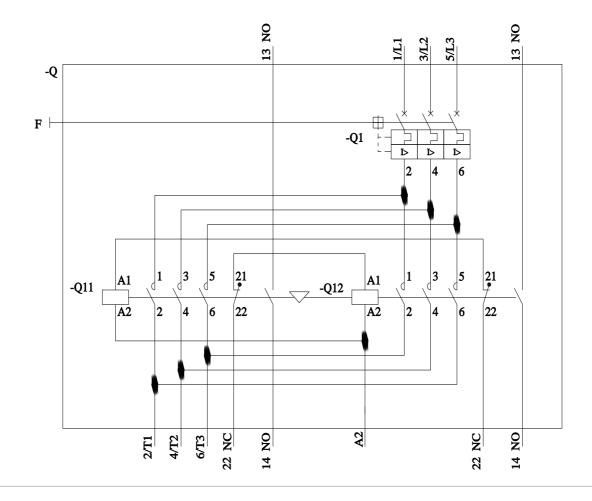
	000.1/			
at AC-3 rated value maximum	690 V			
at AC-3e rated value maximum	690 V			
operating frequency rated value	50 60 Hz			
operational current				
at AC-3 at 400 V rated value	22 A			
at AC-3e at 400 V rated value	22 A			
operating power				
• at AC-3				
— at 400 V rated value	11 000 W			
• at AC-3e				
— at 400 V rated value	11 000 kW			
Control circuit/ Control	10			
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	286 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	22 A			
• at 600 V rated value	22 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 				
— 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	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			

	10					
— downwards	10 m					
— at the side	10 m	m				
Connections/ Terminals	_	_				
type of electrical connection						
 for main current circuit 	spring	spring-loaded terminals				
 for auxiliary and control circuit 	spring	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 31920 	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						
PROFINET IO protocol	No					
PROFIsafe protocol	No					
protocol is supported AS-Interface protocol	No					
Certificates/ approvals						
		For use in hazard-				
General Product Approval		ous locations	Declaration of Conform	nity		
	г		66	UK		
(the second secon	L	(EX)	EG-Konf.	Γà		
UL	_	ATEX	ed-soll.			
Test Certificates Marine / Shi	pping					
Special Test Certific- Type Test Certific-		AUVER		(III)		
<u>ate</u> <u>ates/Test Report</u>	3	ALL A	Lloyds	(33)		
	2		Kegister			
ABS		BUREAU	LRS	PRS		
		VERITAS				
Marine / Shipping		other	Railway			
		Confirmation	Vibration and Shock			
	and a	oonninddon	<u>vibration and oncor</u>			
RINA RMRS Divol.com	0a					
Further information						
Siemens has decided to exit the Russian market (see here).						
https://press.siemens.com/global/en/pressrelease/siemens-wind	-down-rus	<u>sian-business</u>				
Siemens is working on the renewal of the current EAC certificates.						
Please contact your local Siemens office on the status of validity			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=3RA2220-4CF27-0AP0						
Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-4CF27-0AP0						
Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
<u>https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4CF27-0AP0</u> Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)						
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-4CF27-0AP0⟨=en						
Characteristic: Tripping characteristics, I ² t, Let-through curr https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4CF		char				
Further characteristics (e.g. electrical endurance, switching	frequency	(v)				
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-4CF27-0AP0&objecttype=14&gridview=view1						









last modified:

4/18/2023 🖸