SIEMENS

Data sheet

3RA2220-1FH24-0AP0

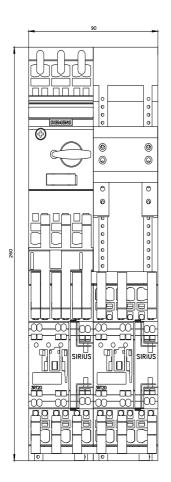


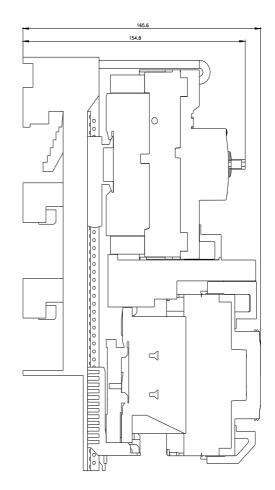
Load feeder fuseless, Reversing duty 400 V AC, Size S0 3.50...5.00 A 230 V AC Spring-type terminal for 60 mm busbar systems (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

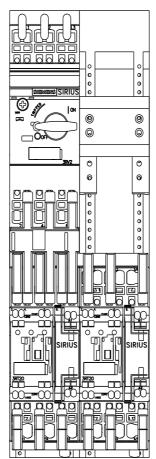
product brand name	SIRIUS		
product designation	Reversing starter		
design of the product	for 60 mm busbars		
product type designation	3RA22		
manufacturer's article number			
 of the supplied contactor 	<u>3RT2024-2AP00</u>		
 of the supplied circuit-breakers 	<u>3RV2021-1FA20</u>		
 of the supplied RS assembly kit 	<u>3RA2923-1DB2</u>		
 of the supplied link module 	<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			
 at AC in hot operating state per pole 	2.7 W		
 without load current share typical 	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)	03/01/2017		
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	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]				
 for single-phase AC motor 				
— at 110/120 V rated value	0.25 hp			
— at 230 V rated value	0.5 hp			
 for 3-phase AC motor 				
— 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	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			

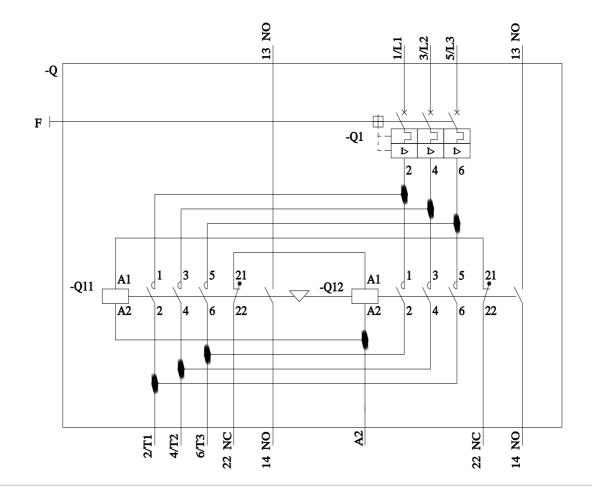
— downwards	10	-					
— at the side		10 mm 10 mm					
Connections/ Terminals	10 111						
type of electrical connection	_						
for main current circuit	spring	-loaded terminals					
for auxiliary and control circuit		spring-loaded terminals spring-loaded terminals					
Safety related data	spring			_			
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 Conformit	у			
	•		((<u>UK</u>			
		\c x/					
		ATEX	EG-Konf.	СН			
Test Certificates Marine / Shipp	oing						
Type Test Certific- Special Test Certific-		AUVER		(ALI)			
ates/Test Report ate		141	Lloyds	(33)			
	r		register				
ABS		BUREAU	LRS	PRS			
		VERITAS					
Marina / Chinning		othor	Pailway				
Marine / Shipping		other	Railway				
		Confirmation	Vibration and Shock				
	1						
	,						
RINA RMRS ENVILEDMAN							
Further information							
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-do	own-russ	sian-business					
Siemens is working on the renewal of the current EAC certification		<u>sian business</u>					
Please contact your local Siemens office on the status of validity of			d to import or offer to supply t	hese 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	=3RA22	<u>20-1FH24-0AP0</u>					
Cax online generator							
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-1FH24-0AP0							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1FH24-0AP0							
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)							
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-1FH24-0AP0⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current							
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1FH24-0AP0/char							
Further characteristics (e.g. electrical endurance, switching from							







7/10/2023



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