SIEMENS

Data sheet

3RA2220-1KH24-0AP0

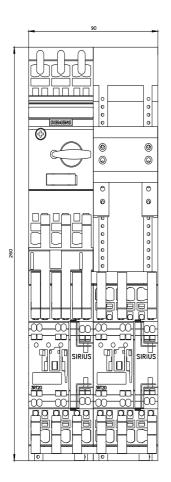


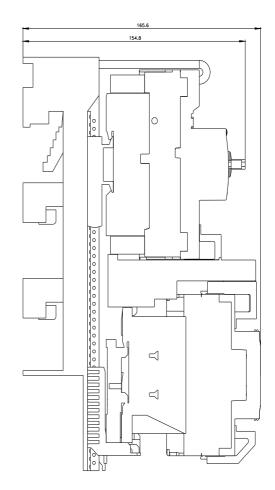
Load feeder fuseless, Reversing duty 400 V AC, Size S0 9.00...12.5 A 230 V AC Spring-type terminal for 60 mm busbar systems (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

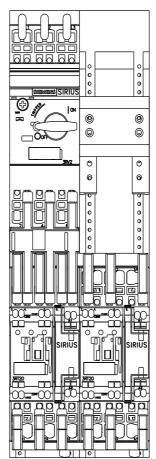
a sector of the	
product brand name	SIRIUS
product designation	Reversing starter
design of the product	for 60 mm busbars
product type designation	3RA22
manufacturer's article number	
 of the supplied contactor 	<u>3RT2024-2AP00</u>
 of the supplied circuit-breakers 	<u>3RV2021-1KA20</u>
 of the supplied RS assembly kit 	<u>3RA2923-1DB2</u>
of the supplied link module	<u>3RA2921-2AA00</u>
General technical data	
size of the circuit-breaker	SO
size of load feeder	SO
power loss [W] for rated value of the current	
 at AC in hot operating state per pole 	3.4 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	9 12.5 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	690 V 50 60 Hz			
operational current				
at AC-3 at 400 V rated value	12 A			
at AC-3e at 400 V rated value	12 A			
operating power				
• at AC-3				
— at 400 V rated value	5 500 W			
• at AC-3e				
— at 400 V rated value	5 500 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	163 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
 at 480 V rated value 	11 A			
 at 600 V rated value 	10 A			
yielded mechanical performance [hp]				
 for single-phase AC motor 				
— at 110/120 V rated value	0.75 hp			
— at 230 V rated value	2 hp			
 for 3-phase AC motor 				
— at 200/208 V rated value	3 hp			
— at 220/230 V rated value	3 hp			
— at 460/480 V rated value	7.5 hp			
— at 575/600 V rated value	10 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			

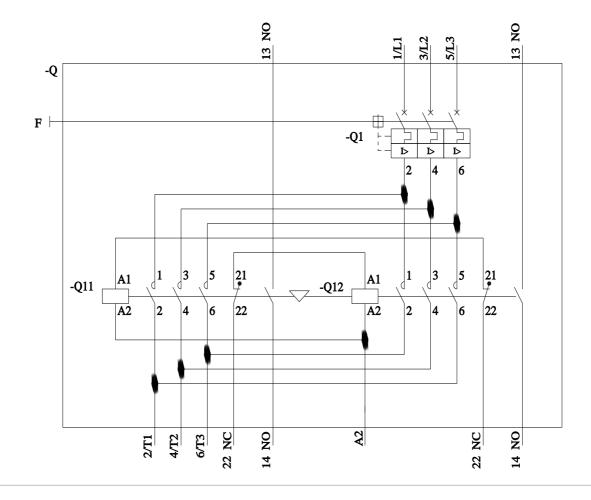
— downwards	10 m					
— at the side	10 m	m				
Connections/ Terminals	_					
type of electrical connection						
for main current circuit		spring-loaded terminals				
 for auxiliary and control circuit 	sprin	spring-loaded terminals				
Safety related data				_		
B10 value with high demand rate according to SN 31920	1 000	1 000 000				
proportion of dangerous failures						
with high demand rate according to SN 31920		73 %				
touch protection on the front according to IEC 60529	finge	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						
General Product Approval		For use in hazard- ous locations	Declaration of Conformi	ity		
		003 100410113				
	-					
(Ur) EU		(F*)	UK	CE		
	L		ГO			
UL —	-	ATEX		EG-Konf.		
Test Certificates Marine / Sh	in min a					
Test Certificates Marine / Sh	ipping					
Type Test Certific- Special Test Certific-		39773		STA		
ates/Test Report ate			Lloyds	(33)		
a starter	2		Register			
ABS		BUREAU	LRS	PRS		
		VERITAS				
			B.1			
Marine / Shipping		other	Railway			
		Confirmation	Vibration and Shock			
	and a second	oommaton	<u>vibration and onook</u>			
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RINA RMRS DWGLCOW	w					
Further information						
Siemens has decided to exit the Russian market (see here).		-ten bootenee				
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=3RA2220-1KH24-0AP0						
https://mail.industry.siemens.com/mail/en/en/Catalog/product?mitb=3RA2220-1KH24-0AP0 Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-1KH24-0AP0						
Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1KH24-0AP0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)						
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-1KH24-0AP0⟨=en						
Characteristic: Tripping characteristics, I ² t, Let-through cur	rent	-				
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1Kl						
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-1KH24-0AP0&objecttype=14&gridview=view1						







7/10/2023



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5/1/2023 🖸