SIEMENS

Data sheet

3RA2220-1CD23-0BB4



Fuseless motor starter Reversing operation 600VAC Size S0 1.8-2.5A 24V DC screw connection For snapping onto 60 mm busbar systems Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (per contactor)

product brand name	SIRIUS				
product designation	non-fused motor starter 3RA2				
design of the product	reversing starter				
manufacturer's article number					
of the supplied contactor	<u>3RT2023-1BB40</u>				
 of the supplied circuit-breakers 	3RV2011-1CA10				
 of the supplied RS assembly kit 	<u>3RA2923-1DB1</u>				
 of the supplied hospital adapter 	8US1251-5NT10				
of the supplied busbar adapter of the supplied link module	3RA2921-1BA00				
General technical data	<u>3RA2921-10A00</u>				
	000				
size of the circuit-breaker	S00				
size of load feeder	S0				
product extension auxiliary switch	Yes				
insulation voltage with degree of pollution 3 at AC rated value	690 V				
degree of pollution	3				
surge voltage resistance rated value	6 kV				
shock resistance according to IEC 60068-2-27	6g / 11 ms				
mechanical service life (switching cycles) of contactor typical	10 000 000				
type of assignment	2				
Ambient conditions					
ambient temperature					
 during operation 	-20 +60 °C				
during storage	-50 +80 °C				
 during transport 	-55 +80 °C				
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	1.8 2.5 A				
operating voltage					
rated value	690 V				
 at AC-3 rated value maximum 	690 V				
operating frequency rated value	50 60 Hz				
operational current at AC-3 at 400 V rated value	1.9 A				
operating power at AC-3					
at 400 V rated value	750 W				
• at 500 V rated value	1 100 W				
Control circuit/ Control					

control supply voltage at DC	
rated value	24 V
holding power of magnet coil at DC	5.9 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
number of NO contacts for auxiliary contacts	2
Protective and monitoring functions	2
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip	32.5 A
unit	52.5 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	2.15 A
 at 600 V rated value 	2.24 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 230 V rated value	0.17 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	0.5 hp
— at 220/230 V rated value	0.5 hp
— at 460/480 V rated value	1 hp
— at 575/600 V rated value	1.5 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	
• at 400 V according to IEC 60947-4-1 rated value	153 000 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	10 mm
— backwards	0 mm
— upwards	30 mm
— at the side	9 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— backwards	0 mm
— upwards	30 mm
— downwards	10 mm
— at the side	9 mm
Connections/ Terminals	
type of electrical connection for main current circuit	screw-type terminals
type of connectable conductor cross-sections	
for main contacts stranded	1 10 mm², 2x (2.5 6 mm²)
 at AWG cables for main contacts 	2x (16 12), 2x (14 8)
connectable conductor cross-section for main contacts	1 6 mm ²
finely stranded with core end processing Safety related data	
	1 000 000
B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate	73 %
according to SN 31920 protection class IP on the front according to IEC	IP20
60529	

touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front						
Certificates/ approvals								
General Product Approval For use in haz ous locations			Declaration of Conformity	other	Dangerous Good			
<u>Confirmation</u>	EAC	K ATEX		CE EG-Konf.	<u>Confirmation</u>	<u>Transport Informa-</u> <u>tion</u>		

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=3RA2220-1CD23-0BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-1CD23-0BB4

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1CD23-0BB4

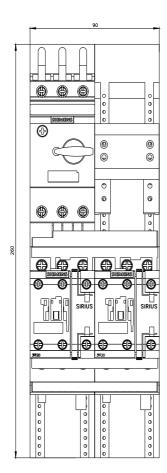
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-1CD23-0BB4&lang=en

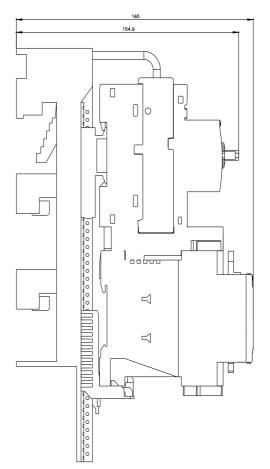
Characteristic: Tripping characteristics, I²t, Let-through current

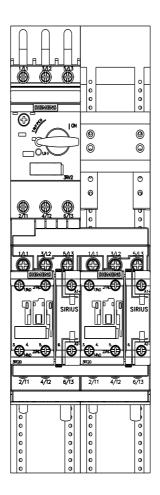
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1CD23-0BB4/char

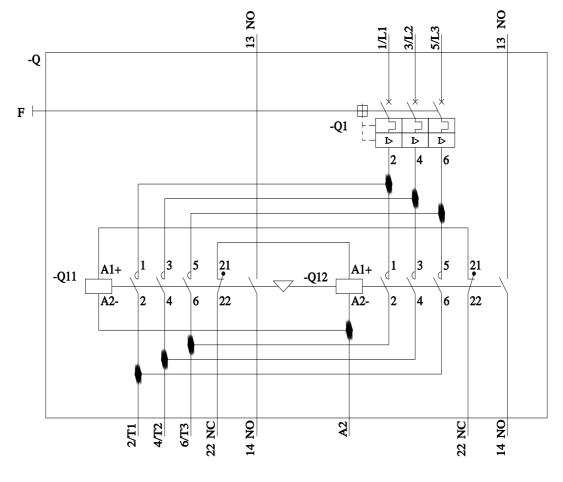
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-1CD23-0BB4&objecttype=14&gridview=view1









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