SIEMENS

Data sheet

3RA2120-1DA23-0BB4



Fuseless motor starter Direct start 600VAC Size S0 2.2-3.2A 24V DC screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (contactor)

design of the product direct starter	product brand name	SIRIUS	
manufacturer's article number of the supplied contactor of the supplied contactor supplied richt-breakers of the supplied link module 3RA2921-1BA00 Seperal technical data size of the circuit-breaker size of load feeder product extension auxiliary switch relation of the supplied richt with th	product designation	non-fused motor starter 3RA2	
of the supplied circuit-breakers of the supplied circuit-breakers of the supplied link module 3RA2321-1BA00 General technical data size of the circuit-breaker size of load feeder product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) of contactor typical type of assignment 2 Substance Prohibitance (Date) 3/01/2017 Ambient conditions ambient temperature during storage during transport 55 +80 °C Main circuit number of poles for main current circuit design of the switching contact dering operation	design of the product	direct starter	
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Size of the circuit-breaker S00	 of the supplied circuit-breakers 	3RV2011-1DA10	
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 degree of pollution 3 at AC rated yalue 680 V shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (switching cycles) of contactor typical 7 typical 7 typical 7 typical 7 typical 7 typical 7 typical 8 type of assignment 2 type of assignment 2 type of assignment 2 type of assignment 8 the more of poles for main current circuit 9 during storage 5 to 4 uring storage 5 to 5 +80 °C 6 turning storage 5 to 5 +80 °C 7 the switching contact 1 adjustable current response value current of the current-dependent overload release 1 operating voltage 690 V operating voltage 690 V operating frequency rated value 690 V operating frequency rated value 50 60 Hz operational current at AC-3 at 400 V rated value 1 100 W operating power at AC-3 - at 400 V rated value 1 100 W opton to circuit/Control	 of the supplied link module 	3RA2921-1BA00	
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at 500 V rated value 1 500 W Control circuit/ Control	operating power at AC-3		
Control circuit/ Control	 at 400 V rated value 	1 100 W	
	• at 500 V rated value	1 500 W	
control supply voltage at DC	Control circuit/ Control		
	control supply voltage at DC		

• rated value	24 V
holding power of magnet coil at DC	5.9 W
Auxiliary circuit	U.3 VV
	1
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	1
Protective and monitoring functions	'
	CLASS 10
trip class	CLASS 10 thermal (bimetallic)
design of the overload release response value current of instantaneous short-circuit trip	41.6 A
unit	71.0A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	2.8 A
• at 600 V rated value	3.16 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
 at 110/120 V rated value 	0.1 hp
— at 230 V rated value	0.25 hp
• for 3-phase AC motor	
— at 200/208 V rated value	0.5 hp
— at 220/230 V rated value	0.75 hp
— at 460/480 V rated value	1.5 hp
— at 575/600 V rated value	2 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	450,000 4
at 400 V according to IEC 60947-4-1 rated value	153 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	Snap-mounted to DIN rail or screw-mounted with additional push-in lug
height width	193.1 mm 45 mm
	45 mm 107 mm
depth required spacing	107 Hill
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 mm²
finely stranded with core end processing	
Safety related data	4 000 000
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 %
protection class IP on the front according to IEC 60529	IP20

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 hazardous locations Declaration of Conformity

other

Dangerous Good

Confirmation







Confirmation

<u>Transport Information</u>

Further information

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=3RA2120-1DA23-0BB4

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2120-1DA23-0BB4}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1DA23-0BB4

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

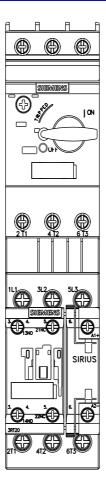
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-1DA23-0BB4&lang=en

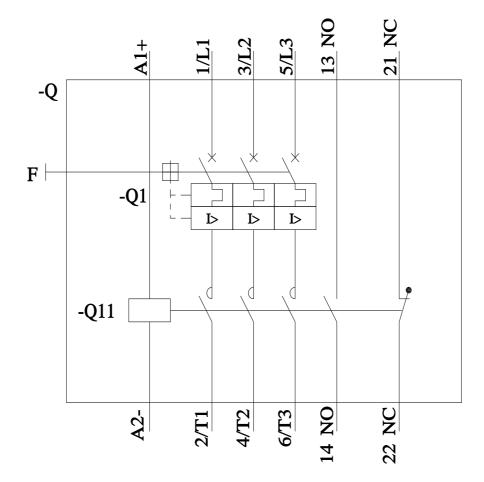
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1DA23-0BB4/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-1DA23-0BB4&objecttype=14&gridview=view1





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