SIEMENS

Data sheet

3RA2120-1FA24-0BB4



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 3.50...5.00 A 24 V DC screw terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

product brand name	SIRIUS
product designation	Direct (on-line) starter
design of the product	for standard rail or screw mounting
product type designation	3RA21
manufacturer's article number	
 of the supplied contactor 	3RT2024-1BB40
 of the supplied circuit-breakers 	3RV2011-1FA10
 of the supplied link module 	3RA2921-1BA00
General technical data	
size of the circuit-breaker	S00
size of load feeder	S0
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance acc. to IEC 60068-2-27	6g / 11 ms
mechanical service life (switching 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
Substance Prohibitance (Date)	01.10.2009 00:00:00
Ambient conditions	
ambient temperature during operation	-20 +60 °C
 ambient temperature during storage 	-50 +80 °C
 ambient temperature 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
accigination and anticoming contact	
adjustable current response value current of the current-dependent overload release	3.5 5 A
adjustable current response value current of the	3.5 5 A 690 V
adjustable current response value current of the current-dependent overload release	
adjustable current response value current of the current-dependent overload release • operating voltage rated value	690 V

operating power at AC-3	
at 400 V rated value	1 500 W
Control circuit/ Control	20
type of voltage of the control supply voltage	DC
control supply voltage at DC	24.1/
• rated value	24 V
holding power of magnet coil at DC	5.9 W
Auxiliary circuit	Voc
product extension auxiliary switch	Yes
Protective and monitoring functions	CLASS 10
trip class design of the overload release	thermal (bimetallic)
UL/CSA ratings	thermal (bilinetallic)
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	4.8 A
yielded mechanical performance [hp]	4.0 A
• for 3-phase AC motor	
— at 200/208 V rated value	1 hp
— at 220/230 V rated value	1 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	3 hp
Short-circuit protection	p
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	
• at 400 V acc. to IEC 60947-4-1 rated value	150 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
height	193 mm
width	45 mm
depth	107 mm
required spacing	
 for grounded parts 	
— forwards	20 mm
— backwards	0 mm
— upwards	50 mm
— at the side	20 mm
— downwards	10 mm
 for live parts 	
— forwards	20 mm
— backwards	0 mm
— upwards	50 mm
— downwards	10 mm
— at the side	20 mm
O	
Connections/ Terminals	
type of electrical connection	
type of electrical connection • for main current circuit	screw-type terminals
type of electrical connection • for main current circuit type of connectable conductor cross-sections	screw-type terminals
type of electrical connection • for main current circuit type of connectable conductor cross-sections • for main contacts	
type of electrical connection	1 10 mm², 2x (2.5 6 mm²)
type of electrical connection	1 10 mm², 2x (2.5 6 mm²) 2x (16 12), 2x (14 8)
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• with high demand rate acc. to SN 31920

73 %

touch protection on the front acc. to IEC 60529

finger-safe, for vertical contact from the front

Certificates/ approvals

General Product Approval

For use in hazardous locations

Declaration of Conformity











Miscellaneous

Test Certificates

Marine / Shipping

Type Test Certificates/Test Report Special Test Certificate









Marine / Shipping

other

Railway







Confirmation

Vibration and Shock

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=3RA2120-1FA24-0BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-1FA24-0BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1FA24-0BB4

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

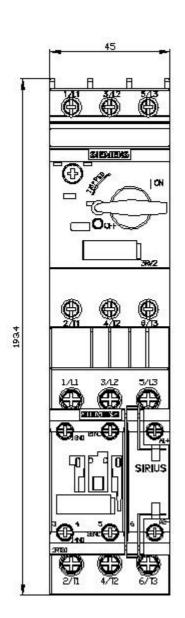
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-1FA24-0BB4&lang=en

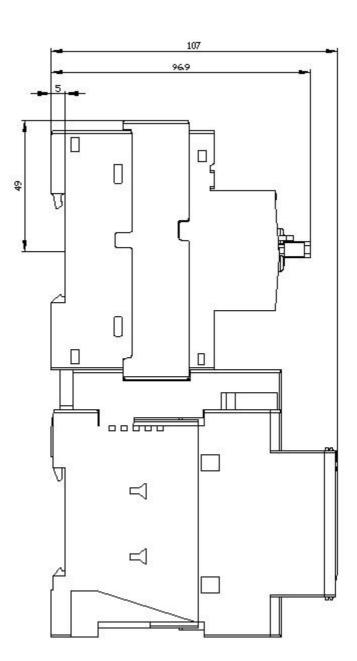
Characteristic: Tripping characteristics, I2t, Let-through current

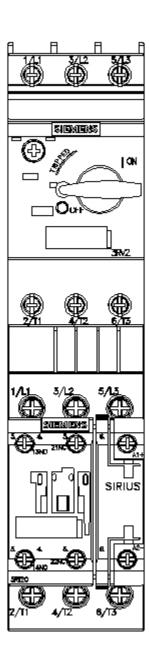
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1FA24-0BB4/char}$

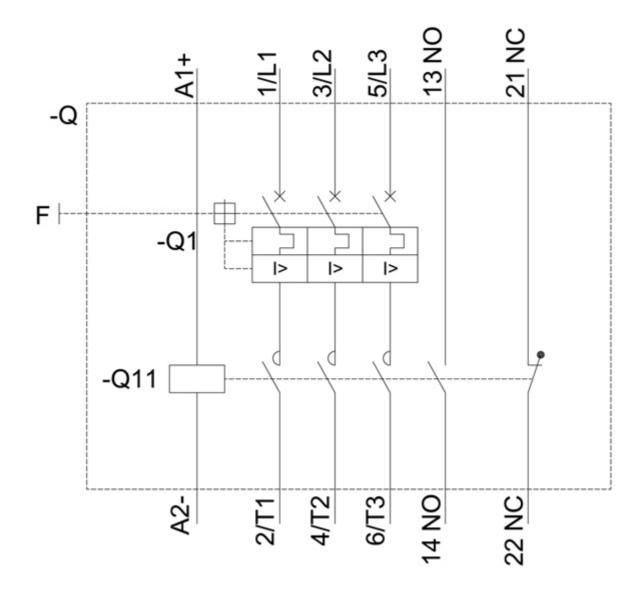
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-1FA24-0BB4&objecttype=14&gridview=view1









last modified: 12/15/2020 🖸