## 3RA2120-4AA26-0FB4

**Data sheet** 



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 10...16 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) with diode combination plugged in at the front

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				
<ul> <li>of the supplied contactor</li> </ul>	3RT2026-1FB40			
<ul> <li>of the supplied circuit-breakers</li> </ul>	3RV2021-4AA10			
<ul> <li>of the supplied link module</li> </ul>	3RA2921-1BA00			
General technical data				
size of the circuit-breaker	S0			
size of load feeder	S0			
power loss [W] for rated value of the current				
<ul> <li>at AC in hot operating state per pole</li> </ul>	5 W			
without load current share typical	5.9 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)	10/01/2009			
Ambient conditions				
ambient temperature				
<ul> <li>during operation</li> </ul>	-20 +60 °C			
<ul><li>during storage</li></ul>	-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	10 16 A			
operating voltage				
rated value	690 V			
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V			
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V			

operating frequency rated walve	E0 60 Hz
operating frequency rated value	50 60 Hz
operational current	16 A
• at AC-3 at 400 V rated value	16 A
at AC-3e at 400 V rated value	16 A
operating power	
• at AC-3	
— at 400 V rated value	7 500 W
• at AC-3e	
— at 400 V rated value	7 500 kW
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
• rated value	24 V
rated value	24 24 V
holding power of magnet coil at DC	5.9 W
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	208 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	16 A
at 600 V rated value	16 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	5 hp
<ul> <li>at 460/480 V rated value</li> </ul>	10 hp
Short-circuit protection	
	Yes
Short-circuit protection	Yes magnetic
Short-circuit protection product function short circuit protection	
Short-circuit protection product function short circuit protection design of the short-circuit trip	
Short-circuit protection  product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq)	magnetic
Short-circuit protection  product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value	magnetic
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions	magnetic 150 000 A
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position	magnetic  150 000 A  vertical
Short-circuit protection  product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail
Short-circuit protection  product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm  45 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm  45 mm
Short-circuit protection  product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm  45 mm
Short-circuit protection  product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing  • for grounded parts	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm
Short-circuit protection  product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing  • for grounded parts  — forwards	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm  45 mm  107 mm
Short-circuit protection  product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm
Short-circuit protection  product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards  — upwards	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm  45 mm  107 mm  20 mm  0 mm  50 mm
Short-circuit protection  product function short circuit protection  design of the short-circuit trip  conditional short-circuit current (Iq)  • at 400 V according to IEC 60947-4-1 rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing  • for grounded parts  — forwards  — backwards  — upwards  — at the side	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm 45 mm 107 mm  20 mm 0 mm 50 mm 20 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm 45 mm 107 mm  20 mm 0 mm 50 mm 20 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm  45 mm  107 mm  20 mm  0 mm  50 mm  20 mm  10 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm  20 mm 0 mm 50 mm 20 mm 10 mm 10 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — backwards	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm 45 mm 107 mm  20 mm 0 mm 50 mm 10 mm 10 mm 10 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — backwards — upwards — backwards — upwards — hackwards — upwards — backwards — upwards	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail  193 mm  45 mm  107 mm  20 mm  0 mm  50 mm  10 mm  0 mm  50 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — backwards — upwards — downwards — forwards — backwards — backwards — downwards — backwards — at the side — downwards — at the side — downwards — at the side	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm  20 mm 0 mm 50 mm 10 mm 0 mm 50 mm 10 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — backwards — upwards — downwards — to downwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side Connections/ Terminals	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm  20 mm 0 mm 50 mm 10 mm 0 mm 50 mm 10 mm
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — backwards — upwards — downwards — forwards — backwards — backwards — downwards — backwards — at the side — downwards — at the side — downwards — at the side	magnetic  150 000 A  vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 45 mm 107 mm  20 mm 0 mm 50 mm 10 mm 0 mm 50 mm 10 mm

• for auxiliary and control circuit	screw-type terminals				
Safety related data					
B10 value with high demand rate according to SN 31920	1 000 000				
proportion of dangerous failures					
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %				
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front				
Communication/ Protocol					
protocol is supported					
<ul> <li>PROFINET IO protocol</li> </ul>	No				
PROFIsafe protocol	No				
protocol is supported AS-Interface protocol	No				
Certificates/ approvals					
General Product Approval		For use in hazard-	Declaration of Conformity		

Confirmation







ous locations





**Test Certificates** 

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate





Confirmation





Marine / Shipping





other Railway

Vibration and Shock

**Transport Information** 

**Dangerous Good** 

## Further information

Siemens has decided to exit the Russian market (see here).

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=3RA2120-4AA26-0FB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-4AA26-0FB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4AA26-0FB4

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

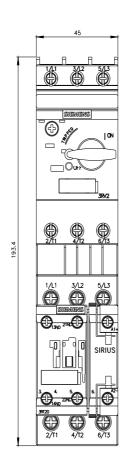
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2120-4AA26-0FB4\&lang=endersen$ 

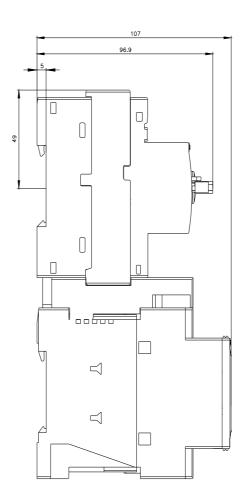
Characteristic: Tripping characteristics, I²t, Let-through current

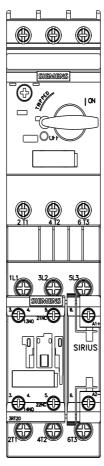
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4AA26-0FB4/char

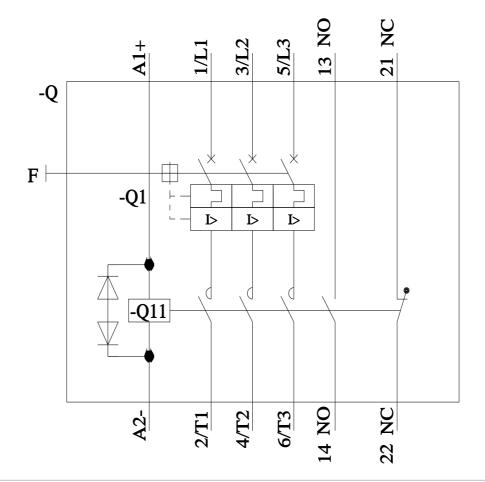
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-4AA26-0FB4&objecttype=14&gridview=view1









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