



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 27.0...32.0 A 230 V AC Spring-type terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, I_q = 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	3RT2027-2AP00
• of the supplied circuit-breakers	3RV2021-4EA20
• of the supplied link module	3RA2921-2AA00
General technical data	
size of the circuit-breaker	S0
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 Prohibition (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
adjustable current response value current of the current-dependent overload release	27 ... 32 A
• operating voltage rated value	690 V
• operating voltage 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	29 A

operating power at AC-3		15 000 W	
• at 400 V rated value			
Control circuit/ Control			
type of voltage of the control supply voltage		AC	
control supply voltage at AC		230 V	
• at 50 Hz rated value			
apparent holding power of magnet coil at AC		9.8 V·A	
Auxiliary circuit			
product extension auxiliary switch		Yes	
Protective and monitoring functions			
trip class		CLASS 10	
design of the overload release		thermal (bimetallic)	
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor		14 A	
• at 480 V rated value			
yielded mechanical performance [hp]		10 hp 20 hp 25 hp	
• for 3-phase AC motor			
— at 220/230 V rated value			
— at 460/480 V rated value			
— at 575/600 V rated value		25 hp	
Short-circuit protection			
product function short circuit protection		Yes	
design of the short-circuit trip		magnetic	
conditional short-circuit current (Iq)		150 000 A	
• at 400 V acc. to IEC 60947-4-1 rated value			
Installation/ mounting/ dimensions			
mounting position		vertical	
fastening method		screw and snap-on mounting onto 35 mm standard mounting rail	
height		243 mm	
width		45 mm	
depth		107 mm	
required spacing		20 mm 0 mm 50 mm 20 mm 10 mm 20 mm 0 mm 50 mm 10 mm 20 mm	
• for grounded parts			
— forwards			
— backwards			
— upwards			
— at the side			
— downwards			
• for live parts			
— forwards			
— backwards			
— upwards			
— downwards			
— at the side			
Connections/ Terminals			
type of electrical connection		spring-loaded terminals	
• for main current circuit			
Safety related data			
B10 value with high demand rate acc. to SN 31920		1 000 000	
proportion of dangerous failures		73 %	
• with high demand rate acc. to SN 31920			
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

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



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=3RA2120-4EE27-0AP0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-4EE27-0AP0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4EE27-0AP0>

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

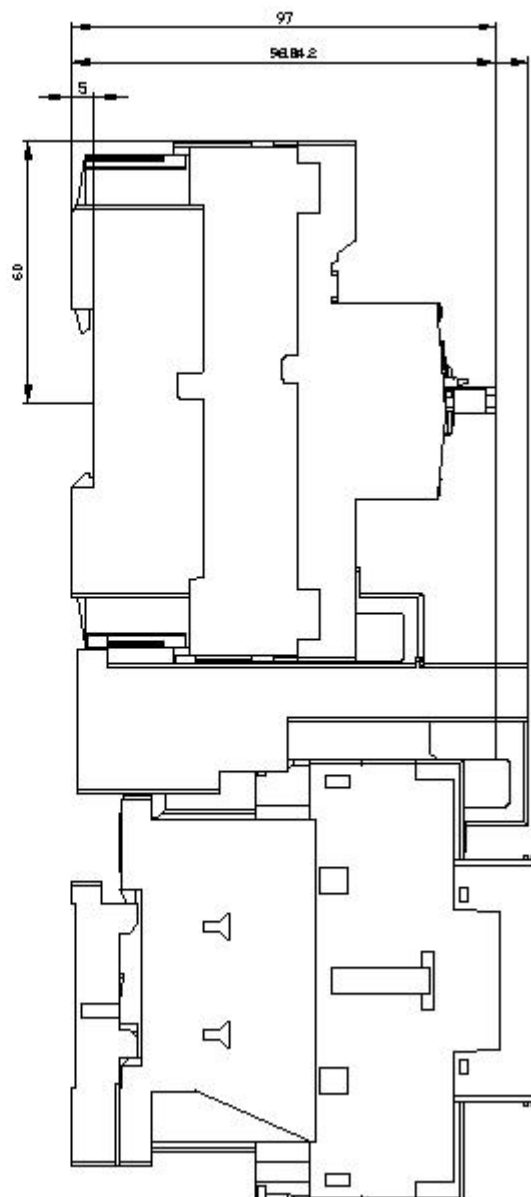
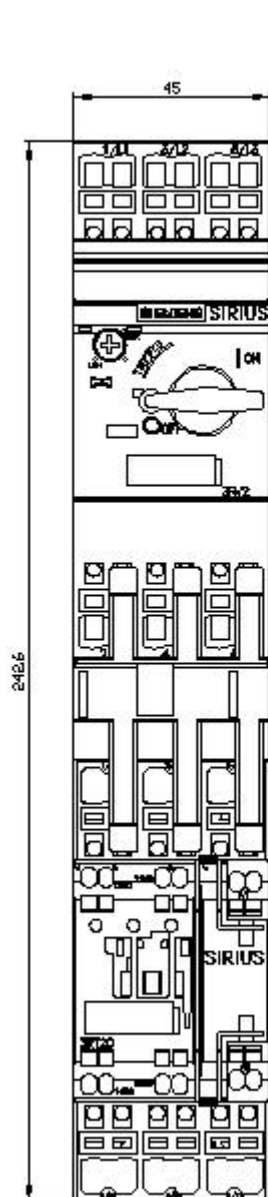
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-4EE27-0AP0&lang=en

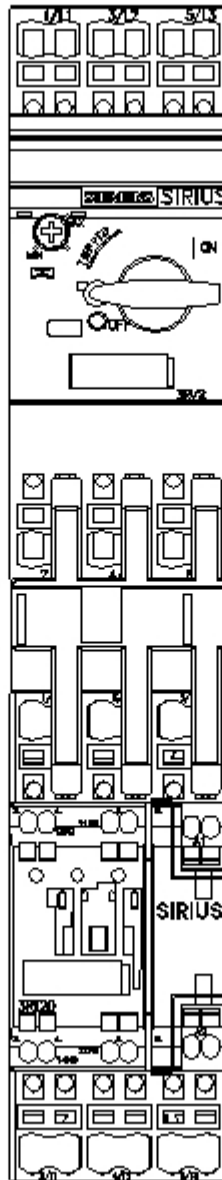
Characteristic: Tripping characteristics, I_t, Let-through current

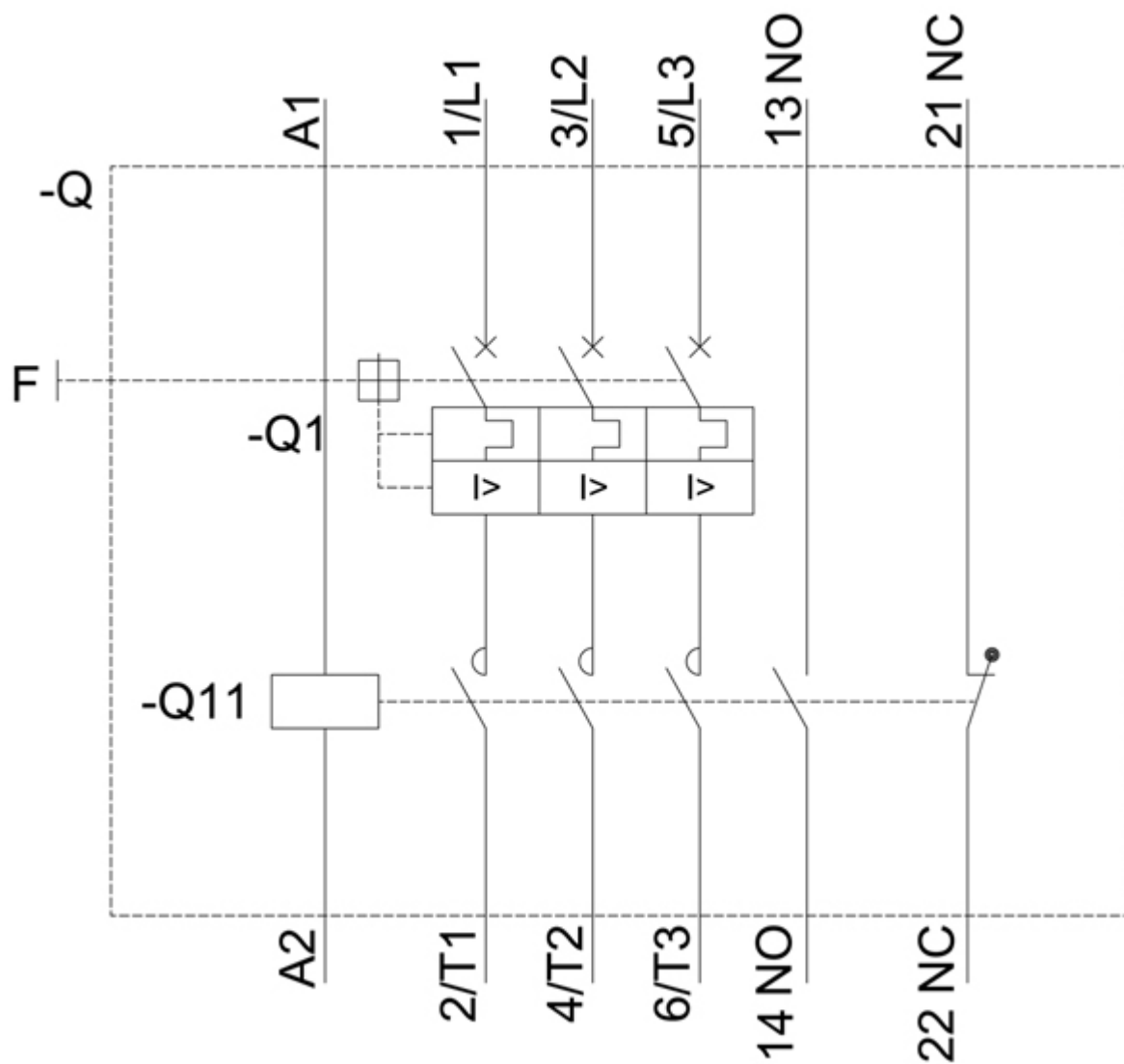
<https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4EE27-0AP0/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-4EE27-0AP0&objecttype=14&gridview=view1>







last modified:

12/15/2020 