

LOAD FEEDER FUSELESS DIRECT START, AC 400V, SZ S0, 18...25A, AC 230V SPRING-LOADED CONNECTION FOR RAIL-MOUNTING, TYPE OF COORDINATION 2, IQ = 150KA (ALSO FULFILLS TYPE OF COORDINATION 1) 1NO+1NC (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	
<ul style="list-style-type: none"> • of the supplied contactor • of the supplied circuit-breakers • of the supplied link module 	3RT2027-2AP00 3RV2021-4DA20 3RA2921-2AA00

General technical data	
Size of the circuit-breaker	S0
Size of load feeder	S0
Insulation voltage	
<ul style="list-style-type: none"> • with degree of pollution 3 rated value 	690 V
Surge voltage resistance rated value	6 kV
Protection class IP	
<ul style="list-style-type: none"> • on the front 	IP20
Type of assignment	2
Protection against electrical shock	finger-safe

Ambient conditions	
Ambient temperature	
• during operation	-20 ... +60 °C
• during storage	-50 ... +80 °C
• during transport	-50 ... +80 °C
Temperature compensation	-20 ... +60 °C
Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	20 ... 25 A
Operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V
Operating frequency rated value	50 ... 60 Hz
Operating current	
• at AC-3	
— at 400 V rated value	22 A
Operating power	
• at AC-3	
— at 400 V rated value	11 000 W
Control circuit/ Control	
Control supply voltage at AC	
• at 50 Hz rated value	230 V
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)
Short-circuit protection	
Product function Short circuit protection	Yes
Design of the short-circuit trip	magnetic
Conditional short-circuit current (I_q)	
• at 400 V acc. to IEC 60947-4-1 rated value	153 000 A
Installation/ mounting/ dimensions	
Mounting position	vertical
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail
Height	242.6 mm
Width	45 mm
Depth	106.9 mm

Required spacing	
<ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> forwards 20 mm Backwards 0 mm upwards 50 mm at the side 20 mm downwards 10 mm for live parts <ul style="list-style-type: none"> forwards 20 mm Backwards 0 mm upwards 50 mm downwards 10 mm at the side 20 mm 	







Connections/Terminals

Type of electrical connection	
<ul style="list-style-type: none"> for main current circuit 	spring-loaded terminals




Safety related data

B10 value	
<ul style="list-style-type: none"> with high demand rate acc. to SN 31920 	1 000 000
Proportion of dangerous failures	
<ul style="list-style-type: none"> with high demand rate acc. to SN 31920 	73 %

Certificates/approvals

General Product Approval	For use in hazardous locations	Declaration of Conformity
 CSA	 UL	 EAC
	 ATEX	 IECEX
		 EG-Konf.

Test Certificates	Marine / Shipping
Type Test Certificates/Test Report	Special Test Certificate
	 ABS
	 BUREAU VERITAS
	 LRS
	 PRS

Marine / Shipping	other	Railway
 RINA	 RMRS	 DNV-GL DNVGL.COM/AF
	Environmental Confirmations	Confirmation
		Vibration and Shock

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3RA2120-4DE27-0AP0>

Cax online generator

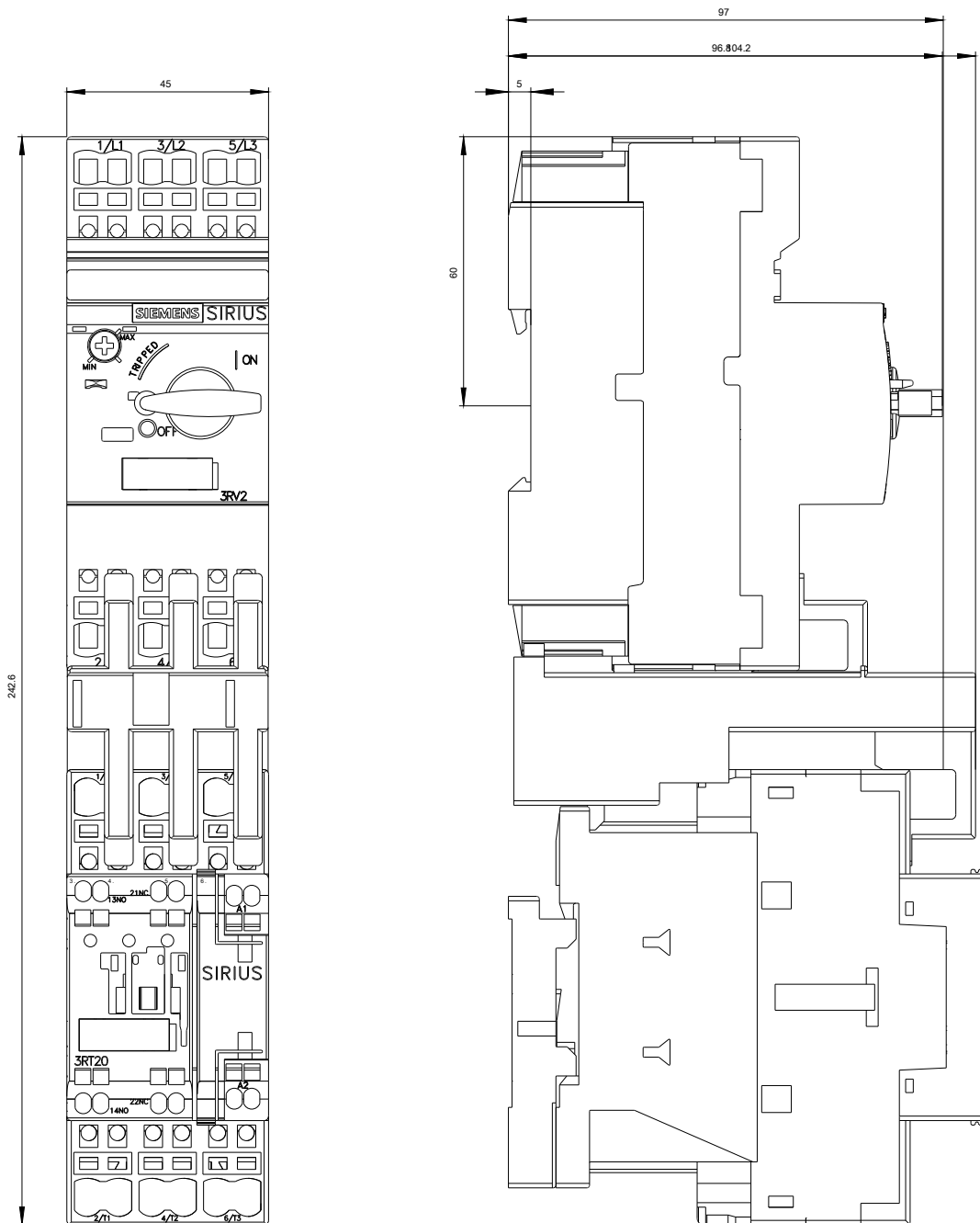
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RA2120-4DE27-0AP0>

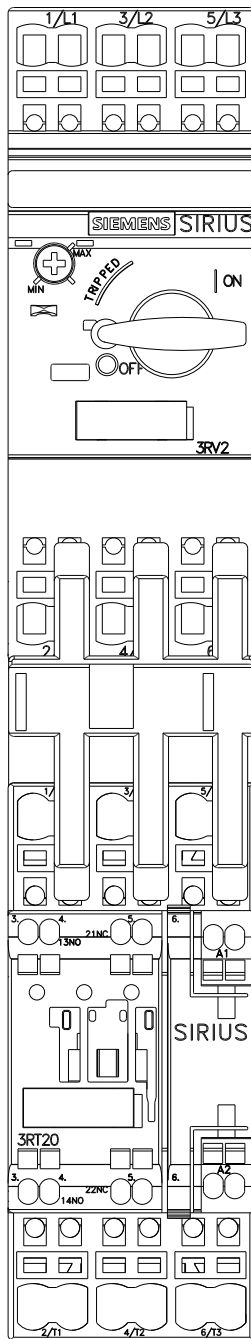
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

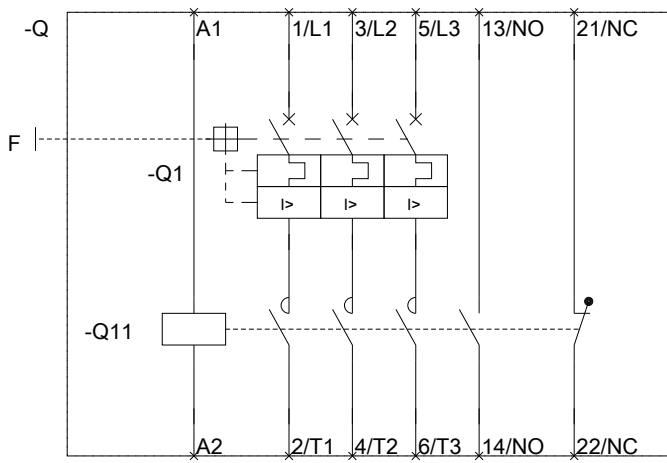
<https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4DE27-0AP0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RA2120-4DE27-0AP0&lang=en







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07/14/2017