



FUSELESS LOAD FEEDER DIRECT START, AC 400V, SZ. S0, 27...32A, AC 110/120V 50/60HZ SCREW TERMINAL FOR DIN RAIL MOUNTING, TYPE OF ASSIGNMENT 2,IQ = 150KA (ALSO TYPE OF ASSIGNMENT 1) 1NO+1NC (CONTACTOR)

product brand name	SIRIUS
product designation	non-fused load feeders 3RA2
design of the product	direct starter
manufacturer's article number	
• of the supplied contactor	3RT2027-1AK60
• of the supplied circuit-breakers	3RV2021-4EA10
• of the supplied link module	3RA2921-1AA00
General technical data	
size of the circuit-breaker	S0
size of load feeder	S0
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
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
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Lead titanium zirconium oxide - 12626-81-2
Weight	0.761 kg
Ambient conditions	
ambient temperature	
• during operation	-20 ... +60 °C
• during storage	-50 ... +80 °C
• during transport	-50 ... +80 °C
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
• 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	
• at 400 V rated value	15 000 W
• at 500 V rated value	18 500 W
• at 690 V rated value	30 000 W
Control circuit/ Control	

control supply voltage at AC		
• at 50 Hz rated value		110 V
• at 60 Hz rated value		120 V
apparent holding power of magnet coil at AC		9.8 VA
Protective and monitoring functions		
trip class		CLASS 10
design of the overload release		thermal (bimetallic)
response value current of instantaneous short-circuit trip unit		416 A
UL/CSA ratings		
full-load current (FLA) for 3-phase AC motor		
• at 480 V rated value		27 A
• at 600 V rated value		27 A
yielded mechanical performance [hp]		
• for single-phase AC motor		
— at 230 V rated value		5 hp
• for 3-phase AC motor		
— at 200/208 V rated value		10 hp
— at 220/230 V rated value		10 hp
— at 460/480 V rated value		20 hp
— 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 (I _q)		
• at 690 V according to IEC 60947-4-1 rated value		2 000 A
• at 400 V according to IEC 60947-4-1 rated value		153 000 A
• at 500 V according to IEC 60947-4-1 rated value		5 000 A
Installation/ mounting/ dimensions		
mounting position		vertical
fastening method		screw and snap-on mounting onto 35 mm DIN rail
height		193.1 mm
width		45 mm
depth		97.1 mm
required spacing		
• 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)
connectable conductor cross-section for main contacts finely stranded with core end processing		1 ... 6 mm²
Safety related data		
proportion of dangerous failures with high demand rate according to SN 31920		73 %
B10 value with high demand rate according to SN 31920		1 000 000
Electrical Safety		
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
Approvals Certificates		
General Product Approval		For use in hazard-Test Certificates

	ous locations	
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[Type Test Certificates/Test Report](#)

Test Certificates	Marine / Shipping
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[Special Test Certificate](#)



Marine / Shipping	other	Railway	Environment
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[Confirmation](#)

[Special Test Certificate](#)

[Environmental Confirmations](#)

Further information

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=3RA2120-4EA27-0AK6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-4EA27-0AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4EA27-0AK6>

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

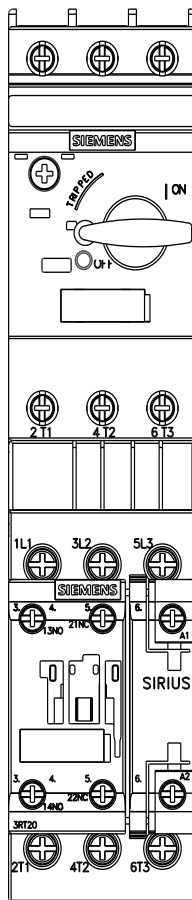
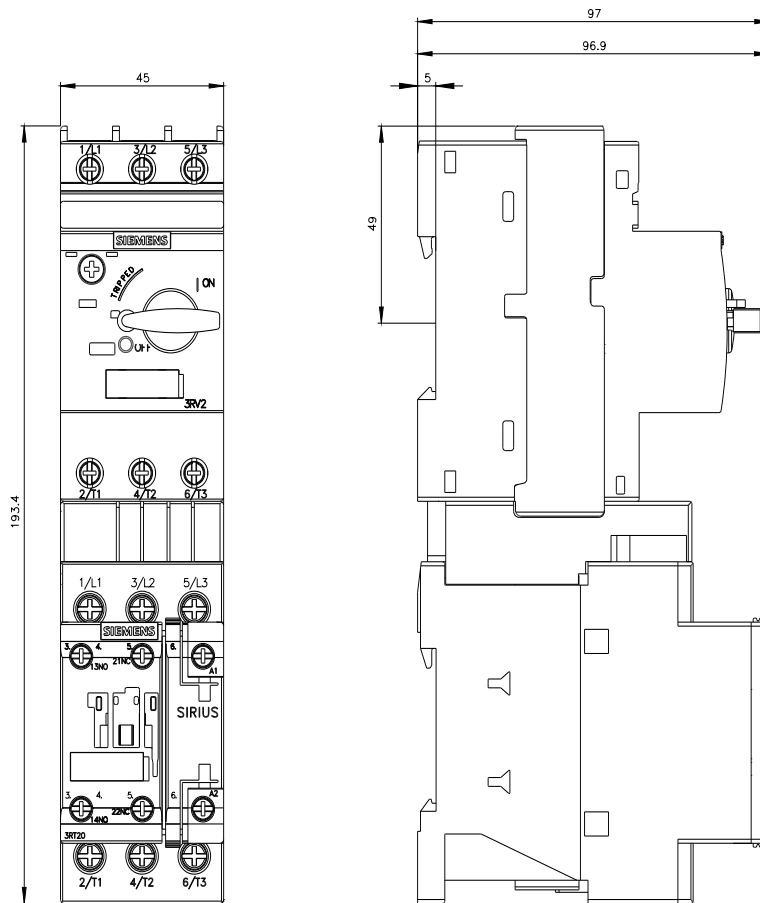
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-4EA27-0AK6&lang=en

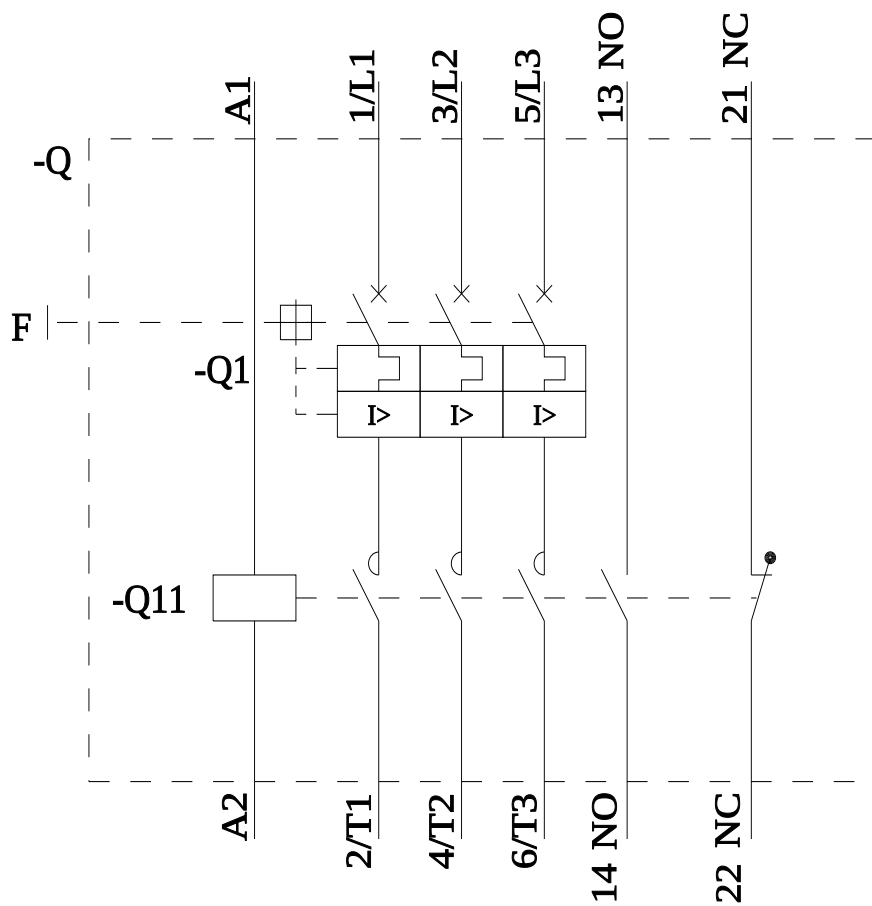
Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4EA27-0AK6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-4EA27-0AK6&objecttype=14&gridview=view1>





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3/11/2024 