



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 7.00...10.0 A 24 V DC screw terminal for installation on standard mounting rail Type of coordination 1, I_q = 150 kA 1 NO (contactor)

product brand name	SIRIUS
product designation	Direct (on-line) starter
design of the product	for DIN-rail or screw mounting
product type designation	3RA21
manufacturer's article number	
• of the supplied contactor	3RT2016-1BB41
• of the supplied circuit-breakers	3RV2011-1JA10
• of the supplied link module	3RA1921-1DA00
General technical data	
size of the circuit-breaker	S00
size of load feeder	S00
power loss [W] for rated value of the current	
• at AC in hot operating state per pole	3.4 W
• without load current share typical	4 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	30 000 000
type of coordination	1
reference code according to IEC 81346-2:2019	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Net Weight	0.661 kg
Ambient conditions	
ambient temperature	
• during operation	-20 ... +60 °C
• during storage	-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	7 ... 10 A
operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V

• at AC-3e rated value maximum	690 V
operating frequency rated value	50 ... 60 Hz
operational current	
• at AC-3 at 400 V rated value	9 A
• at AC-3e at 400 V rated value	9 A
operating power	
• at AC-3 — at 400 V rated value	4 000 W
• at AC-3e — at 400 V rated value	4 000 W
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	24 V
holding power of magnet coil at DC	4 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	130 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	7.6 A
• at 600 V rated value	7.6 A
yielded mechanical performance [hp]	
• for single-phase AC motor — at 110/120 V rated value — at 230 V rated value	0.33 hp 1 hp
• for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value	2 hp 3 hp 5 hp 7.5 hp
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 according 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 DIN rail
height	167 mm
width	45 mm
depth	97 mm
required spacing	
• for grounded parts — forwards — backwards — upwards — at the side — downwards	20 mm 0 mm 50 mm 20 mm 10 mm
• for live parts — forwards — backwards — upwards — downwards — at the side	20 mm 0 mm 50 mm 10 mm 20 mm
Connections/ Terminals	

type of electrical connection		
• for main current circuit	screw-type terminals	
• for auxiliary and control circuit	screw-type terminals	
Safety related data		
product function suitable for safety function	Yes	
Electrical Safety		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
Communication/ Protocol		
protocol is supported		
• PROFINET IO protocol	No	
• PROFIsafe protocol	No	
protocol is supported AS-Interface protocol	No	
Approvals Certificates		
General Product Approval	For use in hazard-ous locations	Test Certificates



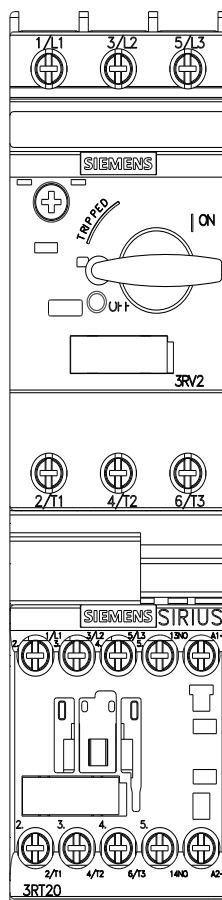
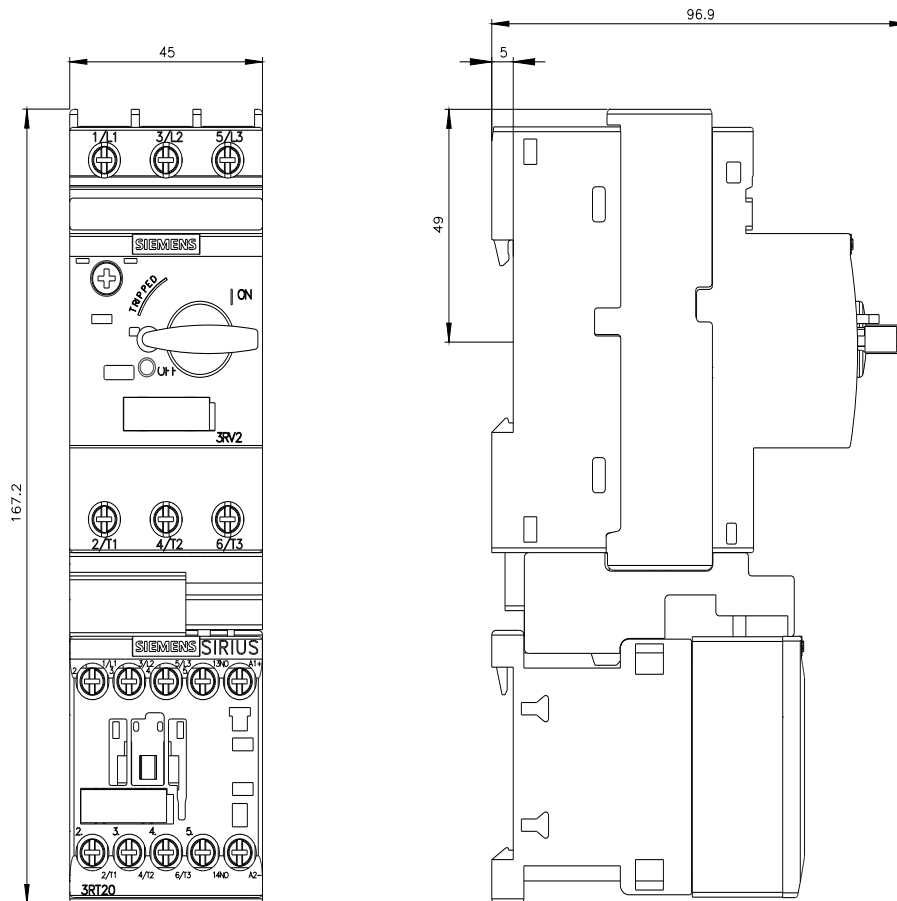
[Type Test Certificates/Test Report](#)

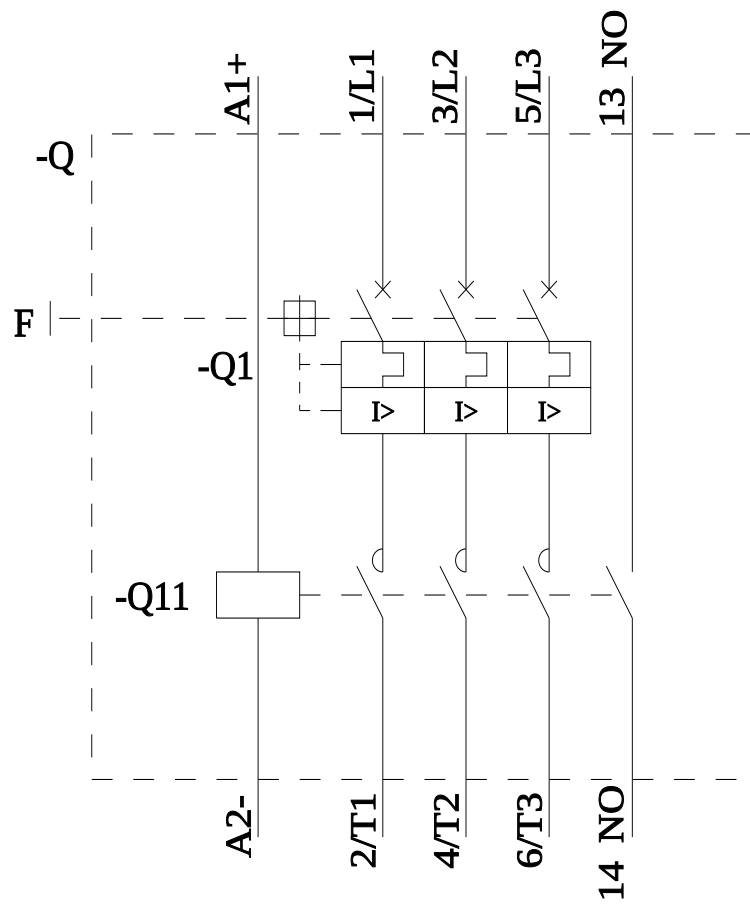
Test Certificates	Maritime application
Special Test Certificate	    

Maritime application	other	Railway	Dangerous goods
  	Confirmation	Special Test Certificate	Transport Information

Environment
Environmental Conformations

Further information
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information for data generation and storage https://support.industry.siemens.com/cs/ww/en/view/109995012 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=3RA2110-1JA16-1BB4 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1JA16-1BB4 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1JA16-1BB4&lang=en Cax online generator https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1JA16-1BB4 Characteristic curves <a href='https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>'>https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>





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