

Load feeder fuseless, Direct-on-line starting 400 V AC, Size S2 49...59 A 230 V AC, 50 Hz screw 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 DIN-rail or screw mounting
product type designation	3RA21
manufacturer's article number	
• of the supplied contactor	3RT2037-1AP00
• of the supplied circuit-breakers	3RV2032-4XA10
• of the supplied link module	3RA2931-1AA00
General technical data	
size of the circuit-breaker	S2
size of load feeder	S2
power loss [W] for rated value of the current	
• at AC in hot operating state per pole	12.5 W
• without load current share typical	16 W
type of calculation of power loss current-dependent	quadratic
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	6 g / 11 ms
mechanical service life (operating cycles) of contactor typical	10 000 000
type of coordination	2
reference code according to IEC 81346-2:2019	Q
Substance Prohibitance (day/month/year)	03/01/2017
SVHC substance name	Lead CAS-No. 7439-92-1
Net Weight	2.279 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	49 ... 59 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	59 A
• at AC-3e at 400 V rated value	59 A
operating power	
• at AC-3	
— at 400 V rated value	30 000 W
• at AC-3e	

— at 400 V rated value		30 000 W
Control circuit/ Control		
type of voltage of the control supply voltage		AC
control supply voltage at AC		
• at 50 Hz rated value		230 V
apparent holding power of magnet coil at AC		16 VA
• at 50 Hz		16 VA
inductive power factor with the holding power of the coil		0.37
• at 50 Hz		0.37
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		845 A
UL/CSA ratings		
full-load current (FLA) for 3-phase AC motor		
• at 480 V rated value		59 A
• at 600 V rated value		52 A
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, horizontal
fastening method		screw and snap-on mounting to two 35 mm DIN rails
height		274 mm
width		55 mm
depth		150 mm
required spacing		
• for grounded parts		
— forwards		32 mm
— backwards		0 mm
— upwards		50 mm
— at the side		10 mm
— downwards		10 mm
• for live parts		
— forwards		32 mm
— backwards		0 mm
— upwards		50 mm
— downwards		10 mm
— at the side		10 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		
Environment	General Product Approval	For use in hazard-

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firmations](#)



Test Certificates

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Maritime application

other



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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=3RA2150-4XA37-0AP0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2150-4XA37-0AP0>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2150-4XA37-0AP0&lang=en

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2150-4XA37-0AP0>

Characteristic curves

https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>

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