



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S2 62 ... 65 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	3RT2038-1AP00
• of the supplied circuit-breakers	3RV2032-4KA10
• 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	15.5 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 Prohibition (day/month/year)	03/01/2017
SVHC substance name	Lead CAS-No. 7439-92-1
Net Weight	2.278 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	62 ... 65 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	73 A
• at AC-3e at 400 V rated value	73 A
operating power	
• at AC-3 — at 400 V rated value	37 000 W
• at AC-3e — at 400 V rated value	37 000 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	949 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	65 A
• at 600 V rated value	62 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 — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — downwards — at the side	32 mm 0 mm 50 mm 10 mm 10 mm 32 mm 0 mm 50 mm 10 mm 10 mm
Connections/ Terminals	
type of electrical connection	
• for main current circuit • for auxiliary and control circuit	screw-type terminals 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				
• PROIsafe protocol		No				
protocol is supported AS-Interface protocol		No				
Approvals Certificates						
Environment	General Product Approval	For use in hazardous locations				
Environmental Confirmations	 UL	 EAC	 EG-Konf.	 UKCA	 ATEX	
Test Certificates		Maritime application				
Special Test Certificate		 ABS	 BUREAU VERITAS	 DNV	 LRS	 PRS
Maritime application		other			Railway	
 RINA	 RMRS	Confirmation	Confirmation	 产品合格 QC PASS	Special Test Certificate	
Dangerous goods						
Transport Information						
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=3RA2150-4KA38-0AP0						
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2150-4KA38-0AP0						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2150-4KA38-0AP0&lang=en						
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