

Combination Starter Reversing FLA Range 17-22A 3 Pole 24VDC Coil S2 Open Type 1NO <(>&<)> 1NC Aux

product brand name	SIRIUS
product designation	non-fused motor starter 3RA2
design of the product	reversing starter
manufacturer's article number	
- of the supplied contactor - of the supplied circuit-breakers - of the supplied RH assembly kit - of the supplied busbar adapter - of the supplied link module - of the supplied DIN-rail adapter	3RT2027-1BB40 3RV2021-4CA15 3RA2923-1BB1 3RA2922-1AA00 3RA2921-1BA00 3RA2922-1AA00
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 coordination	2
Substance Prohibitance (Date)	03/01/2017
Weight	1.83 kg
Ambient conditions	
ambient temperature	
- during operation - during storage - during transport	-20 ... +60 °C -50 ... +80 °C -55 ... +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	17 ... 22 A
operating voltage	
- rated value - at AC-3 rated value maximum	690 V 690 V
operating frequency rated value	50 ... 60 Hz
operational current at AC-3 at 400 V rated value	22 A
operating power at AC-3	
- at 400 V rated value - at 500 V rated value	11 000 W 11 000 W
Control circuit/ Control	
control supply voltage at DC rated value	24 V
holding power of magnet coil at DC	5.9 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts	3
number of NO contacts for auxiliary contacts	3
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	286 A
UL/CSA ratings	

full-load current (FLA) for 3-phase AC motor			
• at 480 V rated value	22 A		
• at 600 V rated value	21.9 A		
yielded mechanical performance [hp]			
• for single-phase AC motor			
— at 110/120 V rated value	1.5 hp		
— at 230 V rated value	3 hp		
• for 3-phase AC motor			
— at 200/208 V rated value	5 hp		
— at 220/230 V rated value	7.5 hp		
— at 460/480 V rated value	15 hp		
— at 575/600 V rated value	20 hp		
Short-circuit protection			
product function short circuit protection	Yes		
design of the short-circuit trip	magnetic		
conditional short-circuit current (Iq)			
• 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	100 000 A		
Installation/ mounting/ dimensions			
mounting position	vertical		
fastening method	snap-on fastening on 35 mm DIN rail		
height	265 mm		
width	90 mm		
depth	130 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 hazardous locations	Test Certificates



[Special Test Certificate](#)

Test Certificates

Maritime application

[Type Test Certificates/Test Report](#)



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

Environment

[Environmental Confirmations](#)

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=3RA2225-4CB27-0BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2225-4CB27-0BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-4CB27-0BB4>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2225-4CB27-0BB4&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-4CB27-0BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2225-4CB27-0BB4&objecttype=14&gridview=view1>

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