Data sheet

3RA2115-1GA16-2BB4



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 4.50...6.30 A 24 V DC screw terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NC (contactor) 1 NO+1 NC (circuit breaker, transverse)

product brand name	SIRIUS		
product designation	Direct (on-line) starter		
design of the product	for standard rail or screw mounting		
product type designation	3RA21		
manufacturer's article number			
 of the supplied contactor 	3RT2016-1BB42		
 of the supplied circuit-breakers 	3RV2011-1GA15		
 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 	2.7 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 assignment	2		
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD		
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001		
reference code according to IEC 81346-2:2019	Q		
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	4.5 6.3 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 	6.3 A
at AC-3e at 400 V rated value	6.3 A
operating power	
• at AC-3	
— at 400 V rated value	2 200 W
• at AC-3e	
— at 400 V rated value	2 200 kW
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
rated value	24 24 V
holding power of magnet coil at DC	4 W
Auxiliary circuit	
product extension auxiliary switch	Yes
<u> </u>	1
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	
Protective and monitoring functions	01 400 40
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	82 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	6.3 A
at 600 V rated value	6.3 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
 for 3-phase AC motor 	
 at 200/208 V rated value 	2 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	5 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	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
	97 mm
depth required engains	97 Hilli
required spacing	
• for grounded parts	20
— forwards	20 mm
— backwards	0 mm
— upwards	50 mm
— at the side	20 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— backwards	0 mm
— upwards	50 mm
— downwards	10 mm
— at the side	20 mm
Connections/ Terminals	

type of electrical connection						
for main current circuit	screw	screw-type terminals				
for auxiliary and control circuit		screw-type terminals				
Safety related data						
B10 value with high demand rate according to SN 31920	1 000	1 000 000				
proportion of dangerous failures						
 with high demand rate according to SN 31920 	73 %	73 %				
touch protection on the front according to IEC 60529	finger	finger-safe, for vertical contact from the front				
Communication/ Protocol						
protocol is supported						
 PROFINET IO protocol 	No	No				
PROFIsafe protocol	No	No				
protocol is supported AS-Interface protocol	No	No				
Certificates/ approvals						
General Product Approval		For use in hazard-	Declaration of Conformity			

Confirmation











Test Certificates

Marine / Shipping

Type Test Certificates/Test Report Special Test Certificate









Marine / Shipping





Confirmation

other

Vibration and Shock

Railway

Transport Information

Dangerous Good

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2115-1GA16-2BB44115-1GA$

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2115-1GA16-2BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2115-1GA16-2BB4

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

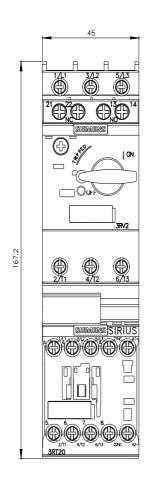
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2115-1GA16-2BB4&lang=en

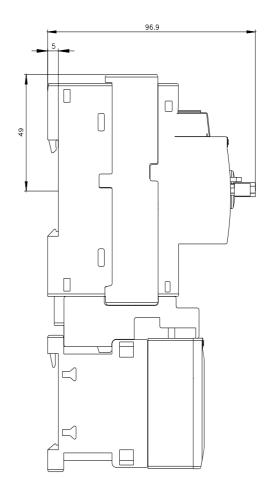
Characteristic: Tripping characteristics, I2t, Let-through current

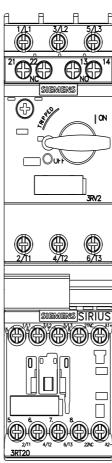
https://support.industry.siemens.com/cs/ww/en/ps/3RA2115-1GA16-2BB4/char

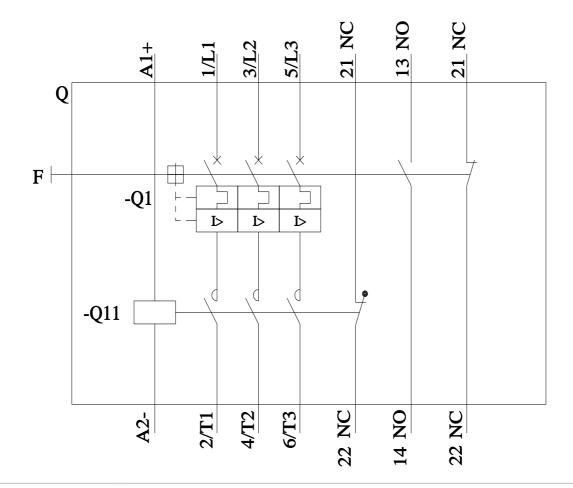
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2115-1GA16-2BB4&objecttype=14&gridview=view1









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