3RA2110-1BA15-1AP0

Data sheet



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 1.40...2.00 A 230 V AC screw terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO (contactor)

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 	3RT2015-1AP01			
 of the supplied circuit-breakers 	3RV2011-1BA10			
 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 	2.6 W			
without load current share typical	4.2 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			
Substance Prohibitance (Date)	10/01/2009			
SVHC substance name	Blei - 7439-92-1			
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	1.4 2 A			
operating voltage				
rated value	690 V			
• at AC-3 rated value maximum	690 V			

1400	2001/			
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 	2 A			
at AC-3e at 400 V rated value	2 A			
operating power				
• at AC-3				
— at 400 V rated value	750 W			
• at AC-3e				
— at 400 V rated value	750 kW			
Control circuit/ Control				
type of voltage of the control supply voltage	AC			
control supply voltage at AC				
 at 50 Hz rated value 	230 V			
at 50 Hz rated value	230 230 V			
at 60 Hz rated value	230 V			
at 60 Hz rated value	230 230 V			
apparent holding power of magnet coil at AC	4.2 VA			
• at 50 Hz	4.2 VA			
• at 60 Hz	3.3 VA			
inductive power factor with the holding power of the coil	0.25			
• at 50 Hz	0.25			
• at 60 Hz	0.25			
Auxiliary circuit				
product extension auxiliary switch	Yes			
Protective and monitoring functions				
	CLASS 10			
trip class				
design of the overload release	thermal (bimetallic)			
response value current of instantaneous short-circuit trip unit	26 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	2 A			
at 600 V rated value	2 A			
yielded mechanical performance [hp]				
 for single-phase AC motor 				
— at 230 V rated value	0.16 hp			
 for 3-phase AC motor 				
— at 220/230 V rated value	0.5 hp			
— at 460/480 V rated value	1 hp			
— at 575/600 V rated value	1.5 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			
depth	97 mm			
required spacing				
for grounded parts				
— forwards	20 mm			
— backwards	0 mm			
— upwards	50 mm			
— at the side	20 mm			
— at the side — downwards	10 mm			
	IV IIIII			
• for live parts	20 mm			
— 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-type terminals					
 for auxiliary and control circuit 	screw-type terminals					
Safety related data						
B10 value with high demand rate according to SN 31920	1 000 000					
proportion of dangerous failures						
 with high demand rate according to SN 31920 	73 %					
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					
Certificates/ approvals						
General Product Approval		For use in hazard- ous locations	Declaration of Conformity			

Confirmation











Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









Marine / Shipping

other Railway







Confirmation

Vibration and Shock

Further information

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

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2110-1BA15-1AP0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2110-1BA15-1AP0}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1BA15-1AP0

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

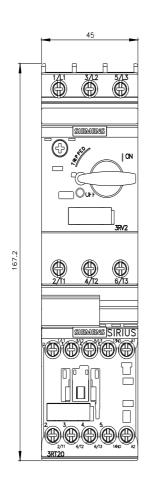
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1BA15-1AP0&lang=en

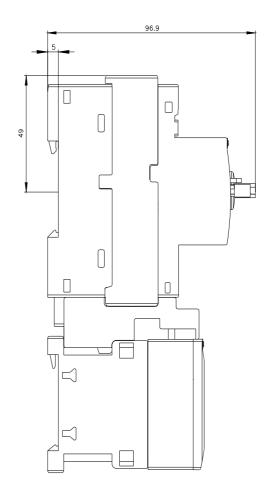
Characteristic: Tripping characteristics, I2t, Let-through current

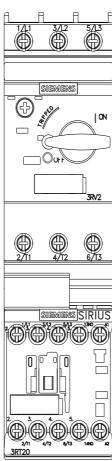
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1BA15-1AP0/char

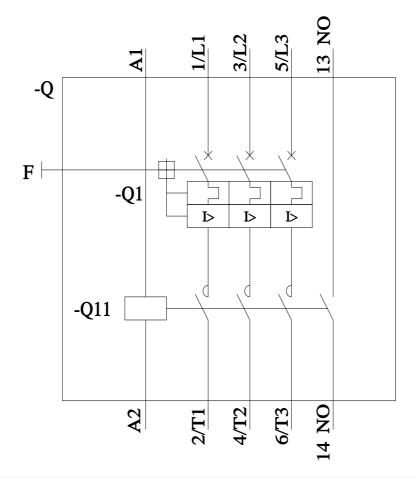
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1BA15-1AP0&objecttype=14&gridview=view1









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