3RA2110-0GA15-1AP0

Data sheet



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 0.45...0.63 A 230 V AC screw terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, lq = 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 	3RV2011-0GA10		
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 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	0.45 0.63 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	0.63 A			
at AC-3e at 400 V rated value	0.63 A			
operating power				
• at AC-3				
— at 400 V rated value	180 W			
• at AC-3e				
— at 400 V rated value	180 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				
trip class	CLASS 10			
design of the overload release	thermal (bimetallic)			
response value current of instantaneous short-circuit trip unit	8.2 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
at 480 V rated value	0.63 A			
at 600 V rated value	0.63 A			
Short-circuit protection				
product function short circuit protection	Yes			
product function short circuit protection design of the short-circuit trip	Yes magnetic			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq)	magnetic			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value				
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions	magnetic 150 000 A			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position	magnetic 150 000 A vertical			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm 97 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm 97 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm 97 mm 20 mm 0 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 20 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 20 mm 10 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq)	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 20 mm 10 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards • for live parts — forwards — backwards — backwards	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm 97 mm 20 mm 0 mm 10 mm 10 mm 20 mm 0 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — backwards — upwards — torwards — backwards — backwards — upwards	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 50 mm 50 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — upwards — downwards • for live parts — forwards — backwards — downwards	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 50 mm 0 mm 50 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — a the side — downwards — downwards — backwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 0 mm 50 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — a the side — downwards — backwards — upwards — backwards — upwards — at the side — downwards — at the side Connections/ Terminals	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 0 mm 50 mm			
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — a the side — downwards — downwards — backwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side	magnetic 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 167 mm 45 mm 97 mm 20 mm 0 mm 50 mm 10 mm 0 mm 50 mm			

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-	Declaration of Conformity		

Confirmation







ous locations





Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









Marine / Shipping







Confirmation

other

Vibration and Shock

Railway

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2110-0GA15-1AP0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2110-0GA15-1AP0}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-0GA15-1AP0

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

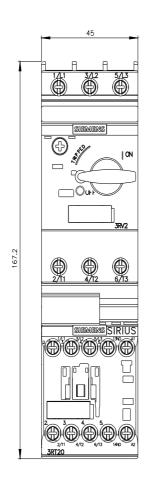
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-0GA15-1AP0&lang=en

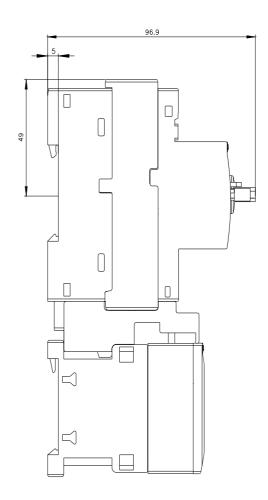
Characteristic: Tripping characteristics, I2t, Let-through current

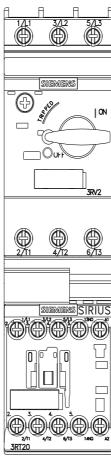
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-0GA15-1AP0/char

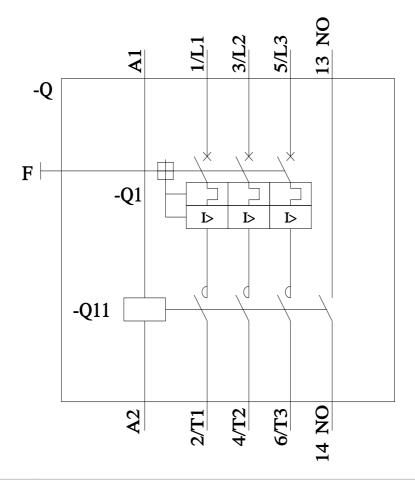
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-0GA15-1AP0&objecttype=14&gridview=view1









last modified: 8/7/2023 🖸

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3RA21100GA151AP0