3RA2110-1FA15-1AP0

Data sheet



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 3.50...5.00 A 230 V AC screw terminal for installation on standard mounting rail Type of coordination 1, 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 	3RV2011-1FA10	
 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	1	
reference code according to IEC 81346-2:2019	Q	
Substance Prohibitance (Date)	10/01/2009	
SVHC substance name	Lead - 7439-92-1	
Weight	0.595 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	3.5 5 A	
operating voltage		
rated value	690 V	
 at AC-3 rated value maximum 	690 V	
 at AC-3e rated value maximum 	690 V	

anausting funguianay rated value	E0
operating frequency rated value	50 60 Hz
operational current	5 A
at AC-3 at 400 V rated value at AC-3 at 400 V rated value	5 A 5 A
at AC-3e at 400 V rated value	J A
operating power • at AC-3	
	4 500 W
— at 400 V rated value ● at AC-3e	1 500 W
— at 400 V rated value	4 500 W
Control circuit/ Control	1 500 W
type of voltage of the control supply voltage	AC
control supply voltage at AC	70
• at 50 Hz rated value	230 V
at 60 Hz rated value	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	65 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	4.8 A
at 600 V rated value	5 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	1.5 hp
— at 460/480 V rated value	3 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
depth	97 mm
required spacing	
 for grounded parts 	
— 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-type terminals		
 for auxiliary and control circuit 	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		
PROFIsafe protocol	No		
protocol is supported AS-Interface protocol	No		
Approvals Certificates			
General Product Approval		For use in hazard-	

Confirmation

General Product Approval











ous locations

Test Certificates

Marine / Shipping

Special Test Certific-

Type Test Certific-ates/Test Report









Marine / Shipping



Confirmation

other

Special Test Certificate

Railway

Environmental Confirmations

Environment

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=3RA2110-1FA15-1AP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1FA15-1AP0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1FA15-1AP0

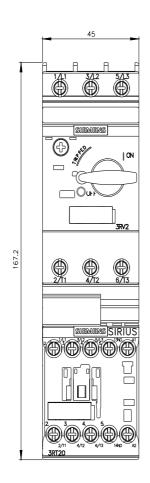
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

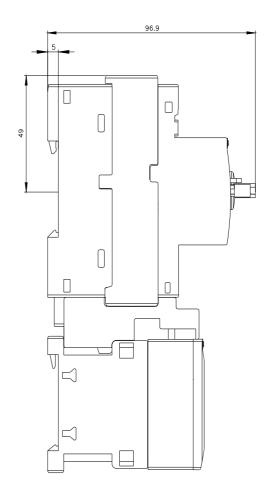
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1FA15-1AP0&lang=en

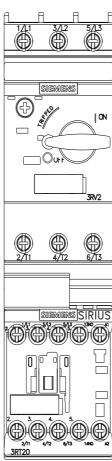
Characteristic: Tripping characteristics, I2t, Let-through current

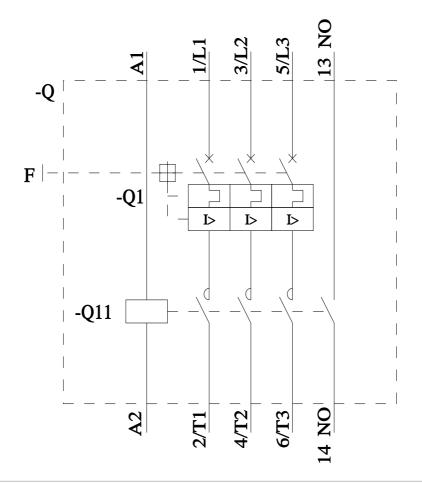
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1FA15-1AP0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1FA15-1AP0&objecttype=14&gridview=view1









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