SIEMENS

Data sheet

3RA2110-1JH16-1AP0



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 7.00...10.0 A 230 V AC Spring-type terminal for 60 mm busbar systems 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 60 mm busbars		
product type designation	3RA21		
manufacturer's article number			
 of the supplied contactor 	3RT2016-2AP01		
 of the supplied circuit-breakers 	3RV2011-1JA20		
 of the supplied busbar adapter 	8US1251-5DT11		
 of the supplied link module 	3RA2911-2AA00		
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 	3.4 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		
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	7 10 A		
operating voltage			
● rated value	690 V		

a at AC 2 rated value manifesture	600 \			
at AC-3 rated value maximum 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	9 A			
at AC-3e at 400 V rated value	9 A			
operating power				
• at AC-3				
— at 400 V rated value	4 000 W			
• at AC-3e				
— at 400 V rated value	4 000 W			
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	130 A			
	10071			
UL/CSA ratings				
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UL/CSA ratings	7.6 A			
UL/CSA ratings full-load current (FLA) for 3-phase AC motor				
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	7.6 A			
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full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (lq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position	7.6 A 7.6 A 0.33 hp 1 hp 2 hp 3 hp 5 hp 7.5 hp Yes magnetic 150 000 A			
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— 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	spring-loaded terminals				
 for auxiliary and control circuit 	spring-loaded terminals				
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				
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- ous locations	Declaration of Conformity		

Test Certificates

Confirmation

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).

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)

 $\underline{\text{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2110-1JH16-1AP0}$

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2110-1JH16-1AP0}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1JH16-1AP0

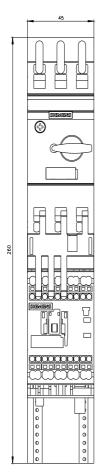
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

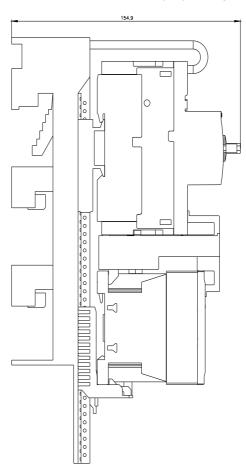
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1JH16-1AP0&lang=en

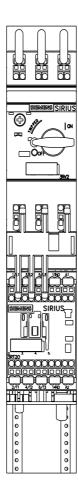
 $Characteristic: Tripping \ characteristics, \ I^2t, \ Let\text{-through current}$

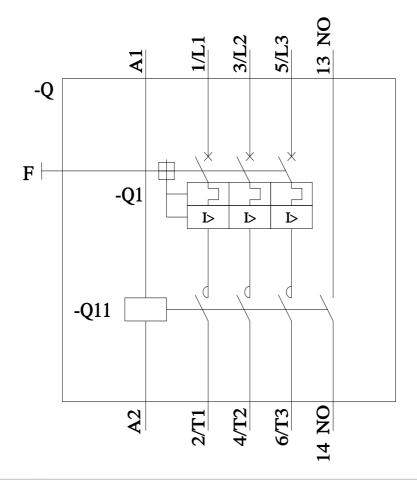
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1JH16-1AP0/char

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









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