SIEMENS

Data sheet

3RA2110-4AD18-1AP0

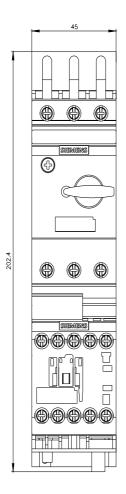


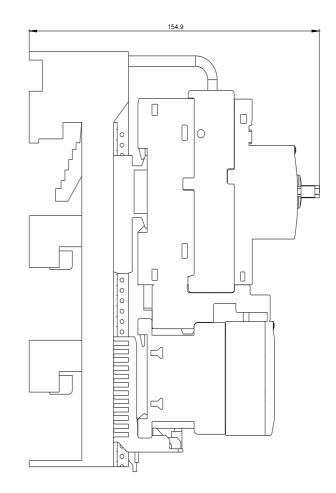
Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 10...16 A 230 V AC screw terminal for 60 mm busbar systems Type of coordination 1, Iq = 150 kA 1 NO (contactor)

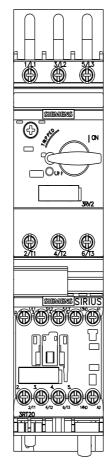
product brand name	SIRIUS		
product designation	Direct (on-line) starter		
design of the product	for 60 mm busbars		
product type designation	3RA21		
manufacturer's article number			
 of the supplied contactor 	<u>3RT2018-1AP01</u>		
 of the supplied circuit-breakers 	<u>3RV2011-4AA10</u>		
 of the supplied busbar adapter 	8US1251-5DS10		
 of the supplied link module 	<u>3RA1921-1DA00</u>		
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 	4.1 W		
 without load current share typical 	5.7 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		
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 %		
Aain 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	10 16 A		
operating voltage			
rated value	690 V		
 at AC-3 rated value maximum 	690 V		

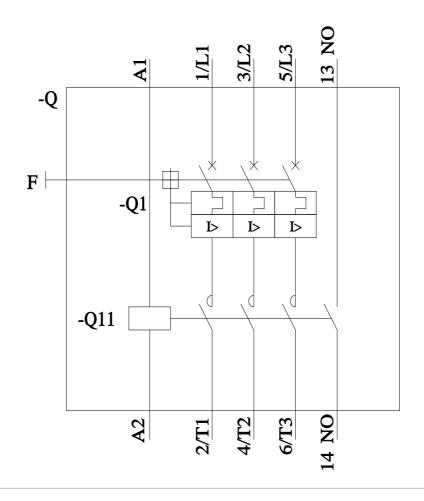
• at AC-3e rated value maximum	600 V			
• at AC-se rated value maximum operating frequency rated value	690 V 50 60 Hz			
operational current				
at AC-3 at 400 V rated value	16 A			
 at AC-3 at 400 V rated value at AC-3e at 400 V rated value 	16 A			
operating power				
• at AC-3				
- at 400 V rated value	7 500 W			
• at AC-3e				
— at 400 V rated value	7 500 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	5.7 VA			
• at 50 Hz	5.7 VA			
• at 60 Hz	4.4 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	208 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	14 A			
at 600 V rated value	11 A			
yielded mechanical performance [hp]				
for single-phase AC motor				
- at 110/120 V rated value	1 hp			
— at 230 V rated value	2 hp			
• for 3-phase AC motor				
- at 200/208 V rated value	3 hp			
- at 220/230 V rated value	5 hp			
- at 460/480 V rated value	10 hp			
Short-circuit protection	Vaa			
product function short circuit protection	Yes			
design of the short-circuit trip conditional short-circuit current (Iq)	magnetic			
at 400 V according to IEC 60947-4-1 rated value	150 000 A			
al 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions				
mounting position	vertical			
fastening method	for snapping onto 60 mm busbar systems			
height	203 mm			
width	45 mm			
depth	155 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	0 mm				
— upwards	50 m	50 mm				
— downwards	10 m	10 mm				
— at the side	20 m	20 mm				
Connections/ Terminals						
type of electrical connection						
for main current circuit	screv	screw-type terminals				
for auxiliary and control circuit						
Safety related data	30101	screw-type terminals				
	4.000	4 000 000				
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 %				
touch protection on the front according to IEC 60529	finge	r-safe, for vertical contact	t from the front			
Communication/ Protocol						
protocol is supported						
PROFINET IO protocol	No					
PROFIsafe protocol	No					
protocol is supported AS-Interface protocol	No					
Certificates/ approvals						
		For use in hazard-				
General Product Approval		ous locations	Declaration of Conform	ty		
Confirmation $(I)_{UL}$	[KEx ATEX	UK CA	CE EG-Konf.		
Test Certificates Marine / Shi	pping					
Type Test Certific- ates/Test Report Special Test Certific- ate ABS		BUREAU VERITAS	Lloyds Register urs	PRS		
Marine / Shipping		other	Railway			
	Ì	<u>Confirmation</u>	<u>Vibration and Shock</u>			
Further information						
Siemens has decided to exit the Russian market (see here).						
https://press.siemens.com/global/en/pressrelease/siemens-wind- Siemens is working on the renewal of the current EAC certif Please contact your local Siemens office on the status of validity EAC relevant market (other than the sanctioned EAEU member of Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875	icates. of the EA states Rus	C certification if you inten	d to import or offer to supply	these products to an		
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?m	lfb=3RA21	10-4AD18-1AP0				
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.as Service&Support (Manuals, Certificates, Characteristics, FA		en&mlfb=3RA2110-4AD1	<u>8-1AP0</u>			
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-4AE Image database (product images, 2D dimension drawings, 3	<u>018-1AP0</u>	, device circuit diagram	s, EPLAN macros)			
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3 Characteristic: Tripping characteristics, I ² t, Let-through curr	RA2110-4 rent	AD18-1AP0⟨=en				
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-4AE						
Further characteristics (e.g. electrical endurance, switching http://www.automation.siemens.com/bilddb/index.aspx?view=Se	arch&mlfb	9) =3RA2110-4AD18-1AP0	&objecttype=14&gridview=vie	ew1		









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