SIEMENS

Data sheet

3RA2110-4AD18-1BB4

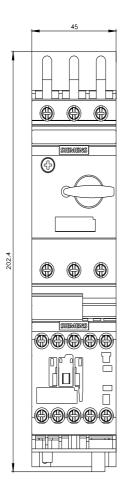


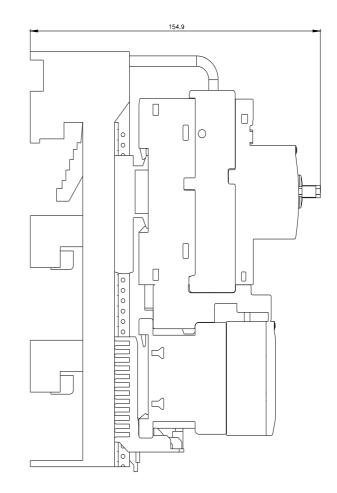
Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 10...16 A 24 V DC screw terminal for 60 mm busbar systems Type of coordination 1, Iq = 150 kA 1 NO (contactor)

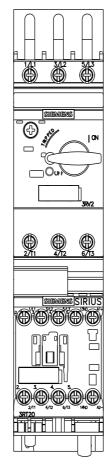
product brand name	SIRIUS
product designation	Direct (on-line) starter
design of the product	for 60 mm busbars
product type designation	3RA21
manufacturer's article number	
 of the supplied contactor 	<u>3RT2018-1BB41</u>
 of the supplied circuit-breakers 	<u>3RV2011-4AA10</u>
 of the supplied busbar 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 	4 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 %
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	10 16 A
operating voltage	
rated value	690 V
• at AC-3 rated value maximum	690 V

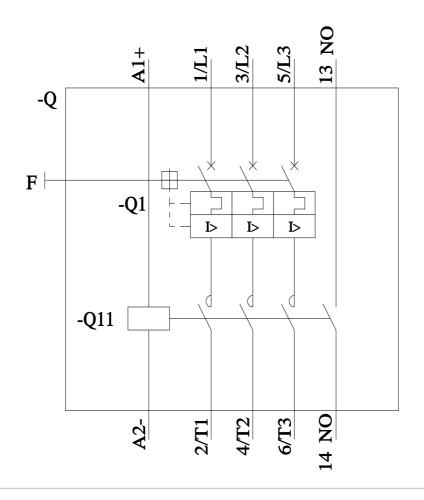
	2001/
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current	
 at AC-3 at 400 V rated value 	16 A
at AC-3e at 400 V rated value	16 A
operating power	
• at AC-3	
— at 400 V rated value	7 500 W
• at AC-3e	
— at 400 V rated value	7 500 kW
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
rated value	24 24 V
holding power of magnet coil at DC	4 W
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	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (lg)	indgriddo
at 400 V according to IEC 60947-4-1 rated value	150 000 A
Installation/ mounting/ dimensions	100 000 //
mounting position	vertical
fastening method	for snapping onto 60 mm busbar systems
height	203 mm
width	45 mm
depth	45 mm 155 mm
required spacing	
for grounded parts	
 for grounded parts forwards 	20 mm
— backwards	0 mm
— upwards	50 mm
— at the side	20 mm
— downwards	10 mm
for live parts	
 for live parts forwards 	20 mm
— torwards — backwards	20 mm
	0 mm 50 mm
— upwards	
— 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 	SCI	screw-type terminals			
afety related data	_				
B10 value with high demand rate according to S	N 31920 1 0	1 000 000			
proportion of dangerous failures					
 with high demand rate according to SN 31 		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	No			
protocol is supported AS-Interface protocol	No	1			
Certificates/ approvals					
General Product Approval		For use in hazard- ous locations	Declaration of Conformity		
Confirmation	EAC	K ATEX	CE EG-Konf.	UK CA	
Test Certificates	Marine / Shipping				
Special Test Certific- ate Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS	Lloyd's Register uis	PRS	
Marine / Shipping		other	Railway	Dangerous Good	
		<u>Confirmation</u>	Vibration and Shock	Transport Information	
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