## SIEMENS

## Data sheet

## 3RA2110-4AD18-1BB4

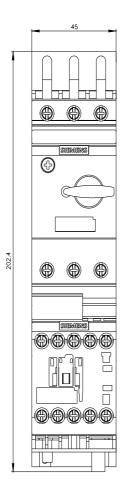


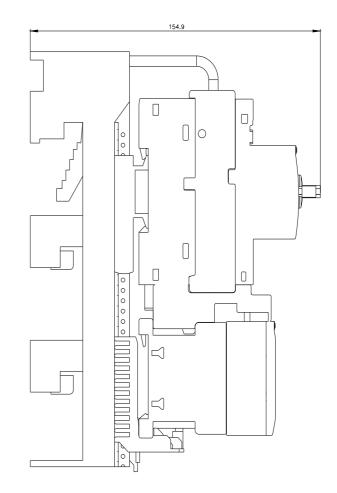
Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 10...16 A 24 V DC screw terminal for 60 mm busbar systems Type of coordination 1, Iq = 150 kA 1 NO (contactor)

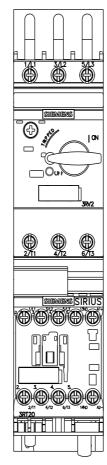
product brand name	SIRIUS
product designation	Direct (on-line) starter
design of the product	for 60 mm busbars
product type designation	3RA21
manufacturer's article number	
<ul> <li>of the supplied contactor</li> </ul>	<u>3RT2018-1BB41</u>
<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2011-4AA10</u>
<ul> <li>of the supplied busbar adapter</li> </ul>	8US1251-5DS10
<ul> <li>of the supplied link module</li> </ul>	<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	
<ul> <li>at AC in hot operating state per pole</li> </ul>	4.1 W
<ul> <li>without load current share typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-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

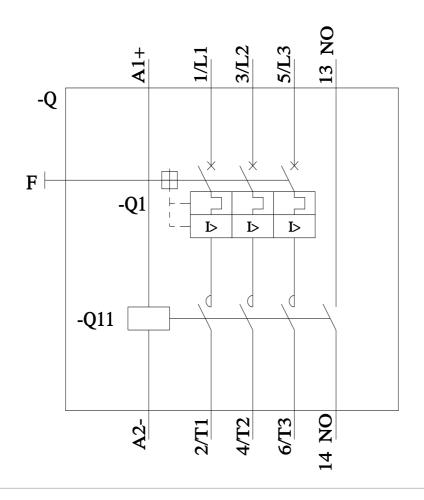
	2001/
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	16 A
at AC-3e at 400 V rated value	16 A
operating power	
• at AC-3	
— at 400 V rated value	7 500 W
• at AC-3e	
— at 400 V rated value	7 500 kW
Control 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
<ul> <li>for 3-phase AC motor</li> </ul>	
— 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	
<ul> <li>for grounded parts</li> <li>forwards</li> </ul>	20 mm
— backwards	0 mm
— upwards	50 mm
— at the side	20 mm
— downwards	10 mm
for live parts	
<ul> <li>for live parts</li> <li>forwards</li> </ul>	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			
<ul> <li>for auxiliary and control circuit</li> </ul>	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					
<ul> <li>with high demand rate according to SN 31</li> </ul>		73 %			
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front			
Communication/ Protocol					
protocol is supported					
<ul> <li>PROFINET IO protocol</li> </ul>	No	)			
<ul> <li>PROFIsafe protocol</li> </ul>	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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