SIEMENS

Data sheet

3RA2120-1HE24-0BB4

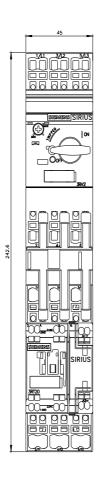


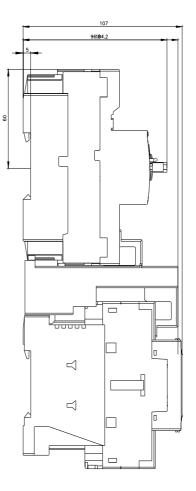
Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 5.50...8.00 A 24 V DC Spring-type terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

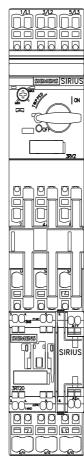
product brand name	SIRIUS		
product designation	Direct (on-line) starter		
design of the product	for standard rail or screw mounting		
product type designation	3RA21		
manufacturer's article number			
 of the supplied contactor 	<u>3RT2024-2BB40</u>		
 of the supplied circuit-breakers 	<u>3RV2021-1HA20</u>		
 of the supplied link module 	<u>3RA2921-2AA00</u>		
General technical data			
size of the circuit-breaker	SO		
size of load feeder	S0		
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 	5.9 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	10 000 000		
type of assignment	2		
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)	03/01/2017		
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	5.5 8 A		
operating voltage			
rated value	690 V		
 at AC-3 rated value maximum 	690 V		
 at AC-3e rated value maximum 	690 V		

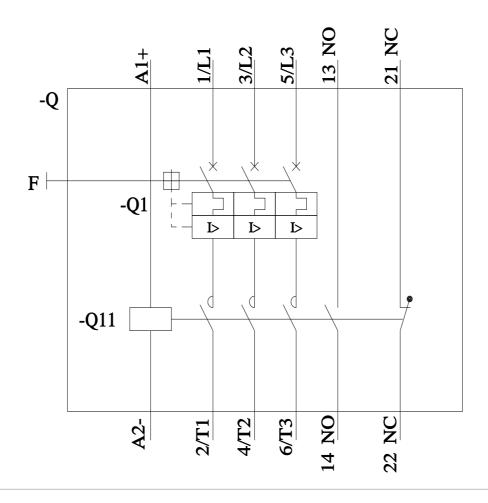
operating frequency rated value	50 60 Hz
operational current	
• at AC-3 at 400 V rated value	8 A
at AC-3e at 400 V rated value	8 A
operating power	
• at AC-3	
— at 400 V rated value	3 000 W
• at AC-3e	
— at 400 V rated value	3 000 kW
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
 rated value 	24 V
rated value	24 24 V
holding power of magnet coil at DC	5.9 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	104 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	8 A
at 480 V rated value at 600 V rated value	8 A
	0 A
yielded mechanical performance [hp]	
for single-phase AC motor	0.00 hz
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
for 3-phase AC motor	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 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	243 mm
width	45 mm
depth	107 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
— lorwards — backwards	0 mm
— upwards	50 mm
— downwards	10 mm
— at the side	20 mm
Connections/ Terminals	
type of electrical connection	

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for main current circuit			spring-loaded terminals			
 for auxiliary and control circuit 		spring	spring-loaded terminals			
Safety related data		_				
B10 value with high demand rate according to S	SN 31920	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			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				
Certificates/ approvals						
General Product Approval			For use in hazard- ous locations	Declaration of Conformity		
Confirmation	EAC	1	K ATEX	CE EG-Konf.	UK CA	
Test Certificates	Marine / Shippi	ing				
Special Test Certific- ate Type Test Certific- ates/Test Report	ABS		BUREAU VERITAS	Lloyd's Register urs	PRS	
Marine / Shipping			other	Railway	Dangerous Good	
			<u>Confirmation</u>	Vibration and Shock	Transport Information	
Further information Siemens has decided to exit the Russian ma https://press.siemens.com/global/en/pressrelea			ion hueinees			
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