SIEMENS

Data sheet

3RA2120-1JD24-0BB4



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 7.00...10.0 A 24 V DC screw terminal for 60 mm busbar systems (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 60 mm busbars
product type designation	3RA21
manufacturer's article number	
 of the supplied contactor 	<u>3RT2024-1BB40</u>
 of the supplied circuit-breakers 	<u>3RV2011-1JA10</u>
 of the supplied busbar adapter 	<u>8US1251-5NT10</u>
 of the supplied link module 	<u>3RA2921-1BA00</u>
General technical data	
size of the circuit-breaker	S00
size of load feeder	SO
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
reference code according to IEC 81346-2:2019	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Weight	1.449 kg
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
 at AC-3 rated value maximum 	690 V

	000.1/
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 	10 A
• at AC-3e at 400 V rated value	10 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	DC
control supply voltage at DC rated value	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) 130 A
response value current of instantaneous short-circuit trip unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	10 A
at 600 V rated value	10 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	1.5 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 220/230 V rated value — at 460/480 V rated value	3 hp 7.5 hp
— at 460/480 V rated value	7.5 hp
 — at 460/480 V rated value — at 575/600 V rated value Short-circuit protection 	7.5 hp
 — at 460/480 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection 	7.5 hp 10 hp Yes
	7.5 hp 10 hp
 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) 	7.5 hp 10 hp Yes magnetic
 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 	7.5 hp 10 hp Yes
 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 	7.5 hp 10 hp Yes magnetic 150 000 A
 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 	7.5 hp 10 hp Yes magnetic 150 000 A vertical
 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 fastening method 	7.5 hp 10 hp Yes magnetic 150 000 A vertical for snapping onto 60 mm busbar systems
 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 fastening method height 	7.5 hp 10 hp Yes magnetic 150 000 A vertical for snapping onto 60 mm busbar systems 260 mm
 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 fastening method height width 	7.5 hp 10 hp Yes magnetic 150 000 A vertical for snapping onto 60 mm busbar systems 260 mm 45 mm
 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 fastening method height width depth 	7.5 hp 10 hp Yes magnetic 150 000 A vertical for snapping onto 60 mm busbar systems 260 mm
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 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 fastening method height width depth required spacing for grounded parts for wards 	7.5 hp 10 hp Yes magnetic 150 000 A vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 165 mm
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 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 fastening method height width depth required spacing for grounded parts for wards 	7.5 hp 10 hp Yes magnetic 150 000 A vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 165 mm 20 mm 0 mm 50 mm
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 for auxiliary and c 	ontrol circuit	SCI	ew-type terminals			
Safety related data						
product function suitable	for safety function	Ye	s			
Electrical Safety			•			
	e front according to IEC	60529 fin	finger-safe, for vertical contact from the front			
touch protection on the front according to IEC 60529 Communication/ Protocol		100323				
protocol is supported						
PROFINET IO pro	atocol	No				
PROFIsafe protoc		No				
protocol is supported AS		No				
Approvals Certificates		110				
General Product Appro	oval				For use in hazard-	
					ous locations	
CE EG-Konf.	UK CA	Confirmation	(h)	EAC	(Ex)	
Test Certificates		Marine / Shipping				
<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	ABS	B UREAU VERITAS		Llovd's Register urs	
Marine / Shipping			other	Railway	Dangerous goods	
PRS	RINA	RMRS RMRS	<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</u>	Transport Information	
Environment						
Environmental Con- firmations						
Further information	kaning					
https://support.industry.s	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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2120-1JD24-0BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-1JD24-0BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1JD24-0BB4

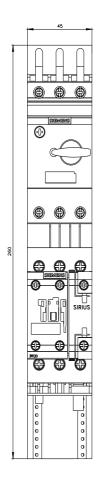
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

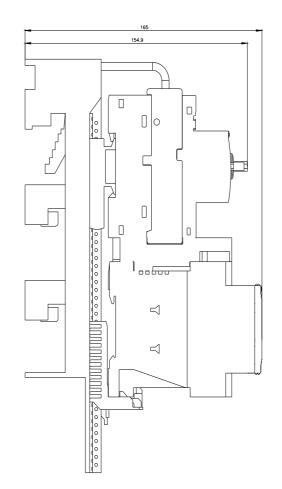
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-1JD24-0BB4&lang=en

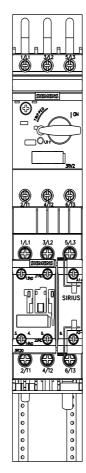
Characteristic: Tripping characteristics, I²t, Let-through current

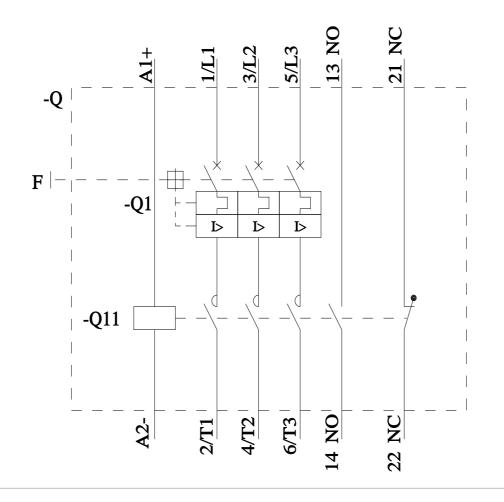
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1JD24-0BB4/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-1JD24-0BB4&objecttype=14&gridview=view1









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