## SIEMENS

## Data sheet

## 3RA2120-1HD24-0AP0

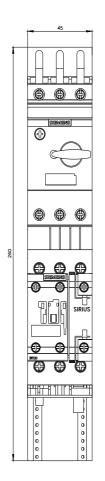


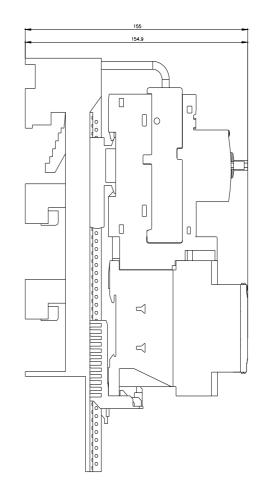
Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 5.50...8.00 A 230 V AC screw terminal for 60 mm busbar systems (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

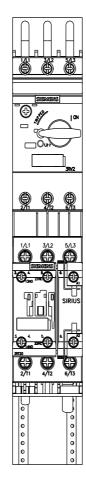
product brand name	SIRIUS			
product designation	Direct (on-line) starter			
design of the product	for 60 mm busbars			
product type designation	3RA21			
manufacturer's article number				
<ul> <li>of the supplied contactor</li> </ul>	<u>3RT2024-1AP00</u>			
<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2011-1HA10</u>			
<ul> <li>of the supplied busbar adapter</li> </ul>	<u>8US1251-5NT10</u>			
<ul> <li>of the supplied link module</li> </ul>	<u>3RA2921-1AA00</u>			
General technical data				
size of the circuit-breaker	S00			
size of load feeder	SO			
power loss [W] for rated value of the current				
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.4 W			
<ul> <li>without load current share typical</li> </ul>	7.6 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)	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			
<ul> <li>during transport</li> </ul>	-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			

<ul> <li>at AC-3e rated value maximum</li> </ul>	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	AC			
control supply voltage at AC				
• at 50 Hz rated value	230 V			
• at 50 Hz rated value	230 230 V			
apparent holding power of magnet coil at AC	7.6 VA			
• at 50 Hz	7.6 VA			
inductive power factor with the holding power of the coil	0.25			
• at 50 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	104 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	8 A			
<ul> <li>at 600 V rated value</li> </ul>	8 A			
yielded mechanical performance [hp]				
<ul> <li>for single-phase AC motor</li> </ul>				
— at 110/120 V rated value	0.33 hp			
— at 230 V rated value	1 hp			
<ul> <li>for 3-phase AC motor</li> </ul>				
— 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 (lq)				
• at 400 V according to IEC 60947-4-1 rated value	150 000 A			
Installation/ mounting/ dimensions				
mounting position	vertical			
fastening method	for snapping onto 60 mm busbar systems			
height	260 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			
<ul> <li>for live parts</li> </ul>				
— forwards	20 mm			
— backwards	0 mm			
— upwards	50 mm			

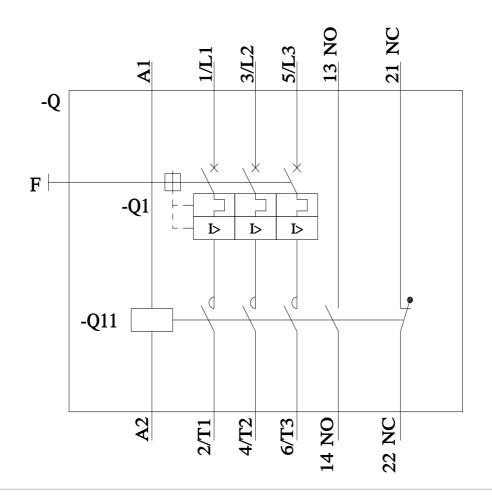
— downwards		10					
domma do		10 mm					
— at the side Connections/ Terminals	_	20 mm					
type of electrical connection	_	_					
51							
for main current circuit     for cuvilians and control circuit		screw-type terminals					
for auxiliary and control circuit     screw-type terminals							
Safety related data	1020	1.000	000				
B10 value with high demand rate according to SN 3	1920	1 000 000					
proportion of dangerous failures	、 、	70.0/					
with high demand rate according to SN 31920     touch protection on the front according to IEC 6		73 %					
touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Communication/ Protocol       Finger-safe, for vertical contact from the front							
	_	_					
protocol is supported		No					
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 Confor	mity		
<u>Confirmation</u>				~ ~			
(ŲL)	FHE		(Ex)	( –	UK		
<u> </u>	LIIL			EG-Konf.	СО		
01			ATEX	EG-ROHT.			
Test Certificates	Marine / Shippir	ng					
		0					
Special Test Certific- Type Test Certific-	and the second second		A A A A A A A A A A A A A A A A A A A	I los alto	(And a state of the state of th		
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	ABS			LRS	DBS		
	ABS		BUREAU VERITAS	0.3	FRS		
Marine / Shipping			other	Railway	Environment		
	STREET BELL		<b>Confirmation</b>	Vibration and Shock	Environmental Con-		
					firmations		
	DNV-GL						
RINA RMRS	Devolution						
Further information	(						
Siemens has decided to exit the Russian market https://press.siemens.com/global/en/pressrelease/si		vn-russ	ian-business				
Siemens is working on the renewal of the curren							
Please contact your local Siemens office on the stat				d to import or offer to supp	bly these products to an		
EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging							
https://support.industry.siemens.com/cs/ww/en/view	/109813875						
Information- and Downloadcenter (Catalogs, Bro	chures,)						
https://www.siemens.com/ic10 Industry Mall (Online ordering system)							
https://mall.industry.siemens.com/mall/en/en/Catalo	g/product?mlfb=3	3RA212	20-1HD24-0AP0				
Cax online generator							
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-1HD24-0AP0							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1HD24-0AP0							
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)							
http://www.automation.siemens.com/bilddb/cax_de.aspx?mifb=3RA2120-1HD24-0AP0⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current							
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1HD24-0AP0/char							
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-1HD24-0AP0&objecttype=14&gridview=view1							
Further characteristics (e.g. electrical endurance	. switchina frea	uencv	)				







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