## 3RA2120-4BD26-0AP6

**Data sheet** 



Fuseless motor starter Direct start 600VAC Size S0 14-20A 220/240VAC 50/60HZ screw connection For snapping onto 60 mm busbar systems Type of coordination 2 IQ = 50 KA Also full fills type Of coordination 1 1NO+1NC (contactor)

product brand name	SIRIUS	
product designation	non-fused motor starter 3RA2	
design of the product	direct starter	
manufacturer's article number		
<ul> <li>of the supplied contactor</li> </ul>	3RT2026-1AP60	
<ul> <li>of the supplied circuit-breakers</li> </ul>	3RV2021-4BA10	
<ul> <li>of the supplied busbar adapter</li> </ul>	<u>8US1251-5NT10</u>	
<ul> <li>of the supplied link module</li> </ul>	3RA2921-1AA00	
General technical data		
size of the circuit-breaker	S0	
size of load feeder	S0	
product extension auxiliary switch	Yes	
insulation voltage with degree of pollution 3 at AC rated value	690 V	
degree of pollution	3	
surge voltage resistance rated value	6 kV	
shock resistance according to IEC 60068-2-27	6g / 11 ms	
mechanical service life (switching cycles) of contactor typical	10 000 000	
type of assignment	2	
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>	-55 +80 °C	
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	14 20 A	
operating voltage		
rated value	690 V	
at AC-3 rated value maximum	690 V	
operating frequency rated value	50 60 Hz	
operational current at AC-3 at 400 V rated value	15.5 A	
operating power at AC-3		
at 400 V rated value	7 500 W	
at 500 V rated value	11 000 W	
Control circuit/ Control		
control supply voltage at AC		

<ul> <li>at 50 Hz rated value</li> </ul>	220 V
<ul> <li>at 50 Hz rated value</li> </ul>	176 242 V
<ul> <li>at 60 Hz rated value</li> </ul>	240 V
at 60 Hz rated value	192 264 V
apparent holding power of magnet coil at AC	9.4 VA
inductive power factor with the holding power of the coil	0.28
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	260 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	15.2 A
at 600 V rated value	17.8 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
<ul> <li>— at 110/120 V rated value</li> </ul>	1.5 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	
<ul> <li>at 200/208 V rated value</li> </ul>	5 hp
<ul> <li>at 220/230 V rated value</li> </ul>	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	15 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	153 000 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	40
— forwards	10 mm
— backwards	0 mm
— upwards	30 mm
— at the side	9 mm
— downwards	10 mm
• for live parts	10 mm
— forwards — backwards	10 mm 0 mm
	0 mm 30 mm
— upwards — downwards	10 mm
— at the side	9 mm
Connections/ Terminals	O THIN
	scrow typo terminals
type of electrical connection for main current circuit type of connectable conductor cross-sections	screw-type terminals
for main contacts stranded	1 10 mm², 2x (2.5 6 mm²)
at AWG cables for main contacts	2x (16 12), 2x (14 8)
connectable conductor cross-section for main contacts	1 6 mm <sup>2</sup>
finely stranded with core end processing	1 V IIIII
Safety related data	

B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures with high demand rate according to SN 31920	73 %
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front

Certificates/ approvals

**General Product Approval** 

For use in hazardous locations

**Declaration of** Conformity



Confirmation









**Declaration of** Conformity

**Test Certificates** 

Marine / Shipping



Type Test Certificates/Test Report

**Special Test Certific**ate







Marine / Shipping

Railway other









Confirmation

Vibration and Shock

## **Further information**

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=3RA2120-4BD26-0AP6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-4BD26-0AP6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4BD26-0AP6

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2120-4BD26-0AP6&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4BD26-0AP6/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-4BD26-0AP6&objecttype=14&gridview=view1

last modified:

12/15/2020

