Data sheet 3RA2120-1JE24-0AP0



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 7.00...10.0 A 230 V AC 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 DIN-rail or screw mounting	
product type designation	3RA21	
manufacturer's article number		
of the supplied contactor	3RT2024-2AP00	
 of the supplied circuit-breakers 	3RV2021-1JA20	
 of the supplied link module 	3RA2921-2AA00	
General technical data		
size of the circuit-breaker	S0	
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	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	
reference code according to IEC 81346-2:2019	Q	
Substance Prohibitance (Date)	03/01/2017	
SVHC substance name	Lead - 7439-92-1	
Weight	0.974 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 %	
Environmental footprint		
Environmental Product Declaration(EPD)	Yes	
global warming potential [CO2 eq] total	92.1 kg	
global warming potential [CO2 eq] during manufacturing	5.27 kg	
global warming potential [CO2 eq] during operation	87.6 kg	
global warming potential [CO2 eq] after end of life	-0.84 kg	
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	
	600 1/
• rated value	690 V 690 V
at AC-3 rated value maximum at AC-3 rated value maximum	
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current	40.4
• 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	AC
control supply voltage at AC	
at 50 Hz rated value	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	130 A
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 110/120 Viated value — at 230 V rated value	1.5 hp
for 3-phase AC motor	1.0 119
•	3 hp
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 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 (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	
TOT THE POINTS	

— forwards	20 mm
— backwards	0 mm
— upwards	50 mm
— downwards	10 mm
— at the side	20 mm
Connections/ Terminals	
type of electrical connection	
• for main current circuit	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
Safety related data	
product function suitable for safety function	Yes
Electrical Safety	
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
Approvals Certificates	



General Product Approval



Confirmation







For use in hazard-

ous locations

Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









Marine / Shipping



Confirmation

other

Special Test Certificate

Railway



Environment

Environment

Environmental Confirmations

Further information

Information on the packaging

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=3RA2120-1JE24-0AP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-1JE24-0AP0

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

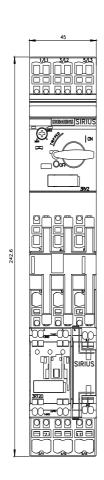
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1JE24-0AP0

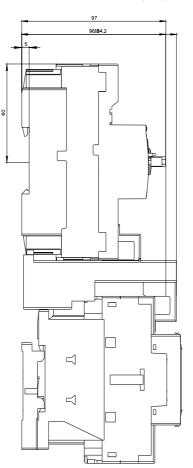
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

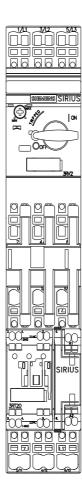
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-1JE24-0AP0&lang=en

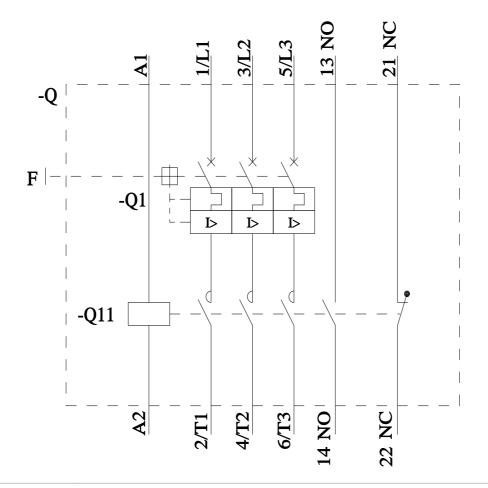
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1JE24-0AP0/char Further characteristics (e.g. electrical endurance, switching frequency)









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