SIEMENS

Data sheet

3RA2120-4CQ27-0AK6

product brand name product designation non-fused motor starter 3RA2 design of the product direct starter manufacturer's article number of the supplied contactor of the supplied circuit-breakers of the supplied busbar adapter of the supplied link module BUS1251-5NT10 SIRIUS NRT2027-1AK60-0UA0 3RT2027-1AK60-0UA0 3RV2021-4CA10 8US1251-5NT10 SIRIUS 3RT2027-1AK60-0UA0 3RV2021-1AK60-0UA0 SIRIUS 3RT2027-1AK60-0UA0 SIRIUS NRT2027-1AK60-0UA0 SIRIUS NRT2027-1AK60-0UA0 NRT2027-1AK60-0UA0 SIRIUS NRT2027-1AK60-0UA0 SIRIUS NRT2027-1AK60-0UA0 SIRIUS NRT2027-1AK60-0UA0 SIRIUS NRT2027-1AK60-0UA0 NRT2027-1AK60-0UA0 SIRIUS NRT2027-1A	
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General technical data size of the circuit-breaker size of load feeder NEMA 1	
size of the circuit-breaker size of load feeder NEMA 1	
size of load feeder NEMA 1	
product extension auxiliary switch	
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 (operating cycles) of contactor typical 10 000 000	
type of assignment 2	
SVHC substance name Lead - 7439-92-1	
Weight 0.51 kg	
Ambient conditions	
ambient temperature	
• during operation -20 +60 °C	
• during storage -50 +80 °C	
• during transport -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	
operating voltage	
• rated value 600 V	
• at AC-3 rated value maximum 600 V	
operating frequency rated value 50 60 Hz	
operational current at AC-3 at 400 V rated value 22 A	
operating power at AC-3	
• at 400 V rated value 11 000 W	
• at 500 V rated value 11 000 W	
Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value 110 V	
• at 50 Hz rated value 88 121 V	
• at 60 Hz rated value 120 V	
• at 60 Hz rated value 96 132 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	

Protective and monitoring functions	0140040	
trip class	CLASS 10	
design of the overload release	thermal (bimetallic)	
response value current of instantaneous short-circuit trip unit	286 A	
UL/CSA ratings		
full-load current (FLA) for 3-phase AC motor		
• at 480 V rated value	15.2 A	
at 600 V rated value	17.8 A	
yielded mechanical performance [hp]		
 for single-phase AC motor 		
— at 110/120 V rated value	2 hp	
— at 230 V rated value	3 hp	
• for 3-phase AC motor		
 at 200/208 V rated value 	7.5 hp	
 at 220/230 V rated value 	7.5 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	
• at 500 V according to IEC 60947-4-1 rated value	100 000 A	
Installation/ mounting/ dimensions	100 000 A	
	vertical	
mounting position		
fastening method	for snapping onto 60 mm busbar systems	
height	260 mm	
width	45 mm	
depth	155 mm	
required spacing		
for grounded parts		
— forwards	10 mm	
— backwards	0 mm	
— upwards	30 mm	
— at the side	9 mm	
— downwards	10 mm	
• for live parts		
— forwards	10 mm	
— backwards	0 mm	
— upwards	30 mm	
— downwards	10 mm	
— at the side	9 mm	
Connections/ Terminals		
type of electrical connection for main current circuit	screw-type terminals	
type of connectable conductor cross-sections for main contacts stranded	1 10 mm², 2x (2.5 6 mm²)	
connectable conductor cross-section for main contacts finely stranded with core end processing	1 6 mm²	
Safety related data	70.07	
proportion of dangerous failures with high demand rate according to SN 31920	73 %	
B10 value with high demand rate according to SN 31920	1 000 000	
Electrical Safety		
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	
Approvals Certificates		
General Product Approval		For use in hazard- ous locations





Confirmation







other **Environment**

> **Environmental Con-**Confirmation **firmations**

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=3RA2120-4CQ27-0AK6

Cax online generator

t.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-4CQ27-0AK6

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

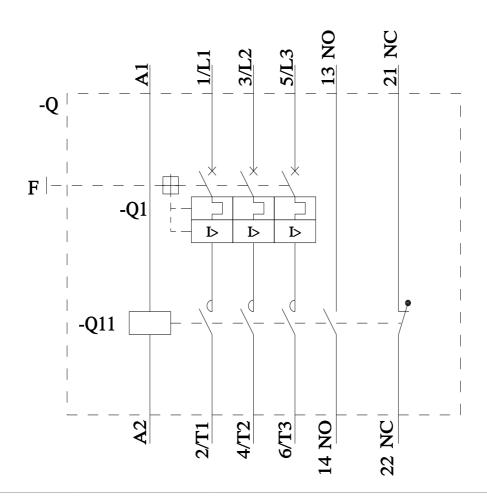
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4CQ27-0A

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-4CQ27-0AK6&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-4CQ27-0AK6&objecttype=14&gridview=view1



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