SIEMENS

Data sheet

3RA2120-4CD27-0AP6



Fuseless motor starter Direct start 600VAC Size S0 17-22A 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	
 of the supplied contactor 	<u>3RT2027-1AP60</u>
 of the supplied circuit-breakers 	<u>3RV2021-4CA10</u>
 of the supplied busbar adapter 	8US1251-5NT10
 of the supplied link module 	<u>3RA2921-1AA00</u>
General technical data	
size of the circuit-breaker	SO
size of load feeder	SO
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
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	17 22 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	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	220 V
• at 50 Hz rated value	176 242 V

a at 60 Hz rotad value	240.1/
at 60 Hz rated value	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	4
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
Protective and monitoring functions	01.400.40
trip class	CLASS 10
design of the overload release	thermal (bimetallic) 286 A
response value current of instantaneous short-circuit trip unit UL/CSA ratings	200 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	22 A
at 400 V rated value at 600 V rated value	21.9 A
yielded mechanical performance [hp]	21.9 A
• for single-phase AC motor	
- at 110/120 V rated value	1.5 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	
- at 200/208 V rated value	5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
— at 575/600 V rated value	20 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	153 000 A
 at 500 V according to IEC 60947-4-1 rated value 	100 000 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	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	
B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate	1 000 000 73 %
according to SN 31920	1000
protection class IP on the front according to IEC 60529	IP20

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Certificates/ approvals							
General Product Approval		For use in hazard- ous locations	Declaration of Conformity				
<u>Confirmation</u>		EAC	K ATEX	UK CA	CE EG-Konf.		
Test Certificates		Marine / Shipping					
Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS	BUREAU VERITAS	Lloydis Register uis	PRS		
Marine / Shipping			other	Railway			
RINA	RMRS R	DNV-GL ENVILLOREN	<u>Confirmation</u>	Vibration and Shock			

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply 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, Brochures,...)

https://www.siemens.com/ic10 Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2120-4CD27-0AP6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-4CD27-0AP6

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

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4CD27-0AP6}$

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

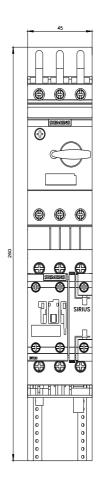
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-4CD27-0AP6&lang=en

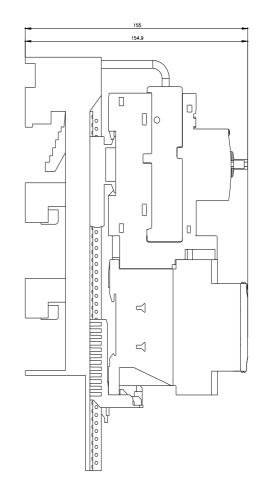
Characteristic: Tripping characteristics, I²t, Let-through current

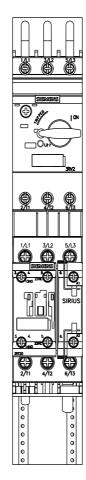
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4CD27-0AP6/char

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

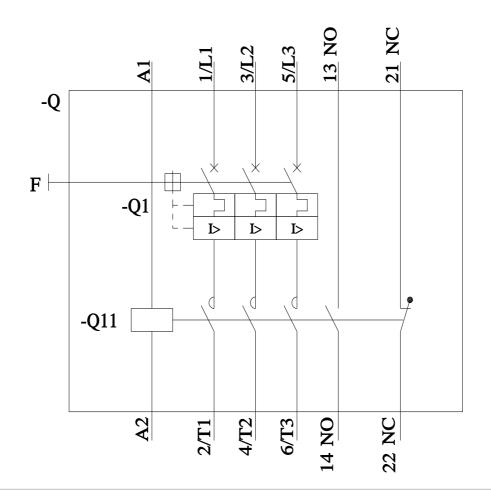
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