SIEMENS

Data sheet

3RA2120-1FQ27-0AK6

product brand name product designation non-fused motor starter 3RA2 design of the product design of the product of the supplied contactor of the supplied contactor of the supplied contactor of the supplied contactor supplied contactor of the supplied brandship and supplied b		Fuseless motor starter Direct start 600VAC Size NEMA 1 3.5-5A 110/120VAC 50/60HZ screw connection For snapping onto 60 mm busbar systems Type of		
product brand name product designation design of the product design of the product design of the product of the supplied contactor of the supplied contactor of the supplied of unbar adapter of the supplied link module state of the circuit-breaker of the supplied link module size of the circuit-breaker size of the cir		coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (contactor)		
product designation design of the product direct starter direct starter direct starter article number of the supplied contactor 3R12027-1AK60-0UA0 article supplied contactor 3R2027-1AK60-0UA0 article supplied contactor 3R2027-1AK60-0UA0 article supplied contactor 3R2027-1AK60-0UA0 article supplied billion module 3R2021-1FA10 of the supplied link module 3R2021-1AA00 General technical data size of the circuit-breaker S0 size of load feeder NEMA 1 product extension auxiliary switch S0 insulation voltage with degree of pollution 3 at AC rated value S90 V degree of pollution 3 surge voltage resistance rated value S90 V degree of pollution 3 surge voltage resistance rated value S90 V shock resistance according to IEC 60088-2-27 S97 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 Main circuit design of the switching contact electromechanical adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 600 V operating frequency rated value at AC-3 rated value S97 150 W at AC-3 rated value S97 150 W at AC-0 rated value 2 200 W Control circuit/ Control control supply voltage at AC • at 60 14z rated value at 50 Vz rated value	product brand name			
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		110 V		
a at 60 Hz rated value	• at 50 Hz rated value	88 121 V		
■ at 00 FIZ Tated value	• at 60 Hz rated value	120 V		
• at 60 Hz rated value 96 132 V	• at 60 Hz rated value	96 132 V		
apparent holding power of magnet coil at AC 9.4 VA	apparent holding power of magnet coil at AC	9.4 VA		
inductive power factor with the holding power of the coil 0.28	inductive power factor with the holding power of the coil	0.28		
Auxiliary circuit				
number of NC contacts for auxiliary contacts 1		1		
number of NO contacts for auxiliary contacts 1				
Protective and monitoring functions				
trip class CLASS 10		CLASS 10		
design of the overload release thermal (bimetallic)	·			

Confirmation				
General Product Approval		For use in hazard- ous locations	Declaration of Conformity	
Certificates/ approvals				
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front			
protection class IP on the front according to IEC 60529	IP20			
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			
Safety related data				
stranded with core end processing				
connectable conductor cross-section for main contacts finely	1 6 mm²			
type of connectable conductor cross-sections for main contacts stranded	1 10 mm², 2x (2.5 6 mm²)			
type of electrical connection for main current circuit	screw-type terminals			
Connections/ Terminals				
— at the side	9 mm			
— downwards	10 mm			
— upwards	30 mm			
— backwards	0 mm			
— forwards	10 mm			
for live parts				
— downwards	10 mm			
— at the side	9 mm			
— upwards	30 mm			
— backwards	0 mm			
— forwards	10 mm			
for grounded parts				
required spacing	TOO HILL			
depth	45 mm 155 mm			
width	45 mm			
fastening method height	for snapping onto 60 mm busbar systems 260 mm			
	vertical			
mounting position	vertice			
Installation/ mounting/ dimensions	155 00	J0 A		
• at 400 V according to IEC 60947-4-1 rated value	153 00	00 Δ		
conditional short-circuit current (Iq)	mayrit	Stile		
design of the short-circuit trip	magne	etic		
product function short circuit protection	Yes			
Short-circuit protection	3 TIP			
— at 450/450 V rated value — at 575/600 V rated value	3 hp			
— at 220/230 V rated value— at 460/480 V rated value	1 hp 3 hp			
— at 200/208 V rated value	1 hp			
• for 3-phase AC motor				
— at 230 V rated value	0.5 hp			
— at 110/120 V rated value	0.17 h	•		
for single-phase AC motor				
yielded mechanical performance [hp]				
at 600 V rated value	4.55 A			
• at 480 V rated value	4.8 A			
full-load current (FLA) for 3-phase AC motor				
UL/CSA ratings				
response value current of instantaneous short-circuit trip unit	65 A			

Confirmation











other

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=3RA2120-1FQ27-0AK6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-1FQ27-0AK6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1FQ27-0AK6

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

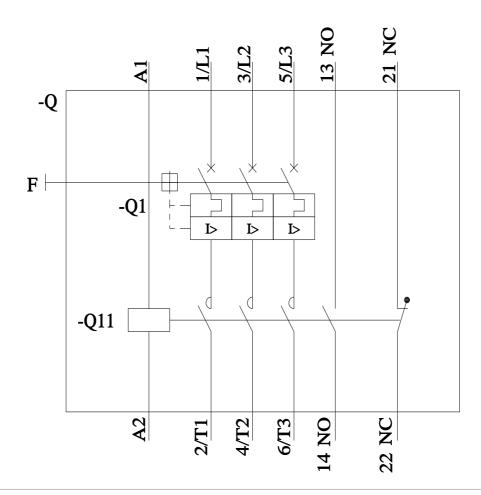
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-1FQ27-0AK6&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1FQ27-0AK6/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-1FQ27-0AK6&objecttype=14&gridview=view1



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