3RA2120-4EA27-0AP0

Data sheet



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 27.0...32.0 A 230 V AC screw 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)

size of the circuit-breaker size of load feeder so power loss [W] for rated value of the current	product brand name	SIRIUS		
product type designation manufacturer's article number • of the supplied circuit-breakers • of the circuit-breaker size of the supplied circuit-breaker size of the supplied circuit-breaker size of the supplied circuit-breaker size of the circuit-breaker size of the supplied contact of the current-breaker size of the supplied	product designation			
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apparent holding power of magnet coil at AC at 50 Hz inductive power factor with the holding power of the coil at 50 Hz Auxillary circuit product extension auxillary switch Protective and monitoring functions trip class design of the overload release thermal (bimetallic) response value current of instantaneous short-circuit trip unit UUCISA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value for single-phase AC motor — at 480 V rated value — at 230 V rated value — at 230 V rated value — at 230 V rated value — at 220/230 V rated value — at 200/208 V rated value — at 460/480 V rated value — at 400/480 V rated value Protection For simple file of 60947-4-1 rated value 150 000 A Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height	at 50 Hz rated value	230 V		
at 50 Hz inductive power factor with the holding power of the coil at 50 Hz at 50 Hz cat 50 Hz cat 50 Hz product extension auxiliary switch protective and monitoring functions trip class CLASS 10 design of the overload release response value current of instantaneous short-circuit trip unit ULICSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor - at 100 V rated value - at 230 V rated value for 3-phase AC motor - at 200208 V rated value for 3-phase AC motor - at 200208 V rated value - at 220230 V rated value - at 220230 V rated value - at 460480 V rated value 10 hp - at 460480 V rated value 20 hp Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit trip conditional short-circuit current (lq) at 480 V according to IEC 60947-4-1 rated value height 193 mm	at 50 Hz rated value	230 230 V		
inductive power factor with the holding power of the coil • at 50 Hz Auxiliary circuit product extension auxiliary switch Protective and monitoring functions trip class CLASS 10 design of the overload release response value current of instantaneous short-circuit trip unit UICSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value — at 110/120 V rated value — at 230 V rated value • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 200/20 V rated value • for 3-phase AC motor — at 200/20 V rated value • for 3-phase AC motor — at 200/20 V rated value • for 3-phase AC motor — at 200/20 V rated value • for 4-phase AC motor — at 200/20 V rated value • for 3-phase AC motor — at 200/20 V rated value • for 4-phase AC motor — at 200/20 V rated value • for 5-phase AC motor — at 200/20 V rated value • to hp • conditional short-circuit protection Ves design of the short-circuit trip conditional short-circuit trip at 400 V according to IEC 60947-4-1 rated value for the short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value for the short-circuit current (Iq) vertical fastening method screw and snap-on mounting onto 35 mm DIN rail height	apparent holding power of magnet coil at AC	9.8 VA		
at 50 Hz Auxiliary circuit product extension auxiliary switch Protective and monitoring functions trip class design of the overload release response value current of instantaneous short-circuit trip unit ULICSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 100/120 V rated value at 27 A yielded mechanical performance [hp] after or 3-phase AC motor at 110/120 V rated value at 200 V rated value by rated value at 200/208 V rated value by rated value at 200/208 V rated value at 400 by rated value at 400 V according to IEC 60947-4-1 rated value food time in short-circuit current (Iq) at 400 V according to IEC 60947-4-1 rated value food time in short-circuit current (Iq) at 400 V according to IEC 60947-4-1 rated value fastening method screw and snap-on mounting onto 35 mm DIN rail height	● at 50 Hz	9.8 VA		
Auxiliary circuit product extension auxiliary switch Protective and monitoring functions trip class CLASS 10 design of the overload release response value current of instantaneous short-circuit trip unit ULICSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 27 A yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value 2 b p - at 230 V rated value 5 hp for 3-phase AC motor - at 220/238 V rated value 10 hp - at 220/230 V rated value 10 hp - at 220/230 V rated value 20 hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic conditional short-circuit current (Iq) at 400 V according to IEC 60947-4-1 rated value finstallation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height	inductive power factor with the holding power of the coil	0.25		
product extension auxiliary switch Protective and monitoring functions trip class	• at 50 Hz	0.25		
trip class design of the overload release response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 200/208 V rated value — at 460/480 V rated value — at 460/480 V rated value product function short circuit protection product function short circuit trip design of the short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height	Auxiliary circuit			
trip class design of the overload release response value current of instantaneous short-circuit trip unit ULICSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value for single-phase AC motor - at 110/120 V rated value • for single-phase AC motor - at 210/120 V rated value • for 3-phase AC motor - at 220/230 V rated value • for 3-phase AC motor - at 220/230 V rated value • for 3-phase AC motor - at 220/230 V rated value • for 3-phase AC motor - at 240/260 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value 20 hp Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height	product extension auxiliary switch	Yes		
design of the overload release thermal (bimetallic) response value current of instantaneous short-circuit trip unit 400 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 27 A • at 600 V rated value 27 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp • for 3-phase AC motor 5 hp — at 220/208 V rated value 10 hp — at 220/230 V rated value 10 hp — at 460/480 V rated value 20 hp 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 150 000 A Installation/ mounting/ dimensions vertical fastening method screw and snap-on mounting onto 35 mm DIN rail height 193 mm	Protective and monitoring functions			
design of the overload release thermal (bimetallic) response value current of instantaneous short-circuit trip unit 400 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 27 A • at 600 V rated value 27 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp • for 3-phase AC motor 5 hp — at 220/208 V rated value 10 hp — at 220/230 V rated value 10 hp — at 460/480 V rated value 20 hp 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 150 000 A Installation/ mounting/ dimensions vertical fastening method screw and snap-on mounting onto 35 mm DIN rail height 193 mm	trip class	CLASS 10		
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • 10 hp — at 460/480 V rated value Short-circuit protection product function short circuit protection yes design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position yertical fastening method screw and snap-on mounting onto 35 mm DIN rail height		thermal (bimetallic)		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value 27 A • at 600 V rated value 27 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp — at 230 V rated value 5 hp • for 3-phase AC motor — at 200/208 V rated value 10 hp — at 220/230 V rated value 20 hp 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 150 000 A Installation/ mounting/ dimensions mounting position yertical fastening method screw and snap-on mounting onto 35 mm DIN rail height 193 mm	response value current of instantaneous short-circuit trip unit	400 A		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value 27 A • at 600 V rated value 27 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp — at 230 V rated value 5 hp • for 3-phase AC motor — at 200/208 V rated value 10 hp — at 220/230 V rated value 20 hp 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 150 000 A Installation/ mounting/ dimensions mounting position yertical fastening method screw and snap-on mounting onto 35 mm DIN rail height 193 mm	· · · · · · · · · · · · · · · · · · ·			
at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value — at 230 V rated value — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value product function short circuit protection product function short-circuit trip design of the short-circuit current (lq) at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height 27 A 28 A 29 A 20 A				
at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value — at 220/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value product function short circuit protection product function short-circuit trip conditional short-circuit current (lq) at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height 2 hp 10 hp		27 A		
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp — at 230 V rated value 5 hp • for 3-phase AC motor — at 200/208 V rated value 10 hp — at 220/230 V rated value 20 hp Short-circuit protection Yes product function short circuit protection Yes design of the short-circuit current (lq) • 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 193 mm	at 600 V rated value	27 A		
for single-phase AC motor — at 110/120 V rated value				
- at 110/120 V rated value 2 hp - at 230 V rated value 5 hp ● for 3-phase AC motor - at 200/208 V rated value 10 hp - at 220/230 V rated value 20 hp 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 150 000 A Installation/ mounting/ dimensions mounting position vertical fastening method screw and snap-on mounting onto 35 mm DIN rail height 193 mm				
- at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value 20 hp Short-circuit protection product function short circuit protection product function short-circuit trip design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position vertical fastening method screw and snap-on mounting onto 35 mm DIN rail height		2 hp		
for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — 20 hp Short-circuit protection product function short circuit protection design of the short-circuit trip				
- at 200/208 V rated value 10 hp - at 220/230 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 (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 193 mm		- · · · · · ·		
- at 220/230 V rated value 10 hp - at 460/480 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 (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 193 mm	·	10 hp		
— at 460/480 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 (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 193 mm				
Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position vertical fastening method height Yes magnetic 150 000 A 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm				
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height Yes magnetic 150 000 A 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm		20 119		
design of the short-circuit trip conditional short-circuit current (Iq) ● at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position vertical fastening method beight magnetic 150 000 A 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm		Vac		
conditional short-circuit current (Iq) ■ at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position vertical fastening method height 193 mm				
 at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height 150 000 A vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm 		magnetic		
Installation/ mounting/ dimensions mounting position vertical fastening method height vertical screw and snap-on mounting onto 35 mm DIN rail 193 mm	* *	450 000 A		
mounting position vertical fastening method screw and snap-on mounting onto 35 mm DIN rail height 193 mm		100 000 A		
fastening method screw and snap-on mounting onto 35 mm DIN rail height 193 mm		vortical		
height 193 mm				
		· · · · · · · · · · · · · · · · · · ·		
width 45 mm				
double 0.7 mm				
depth 97 mm		97 111111		
required spacing				
• for grounded parts		20		
— forwards 20 mm				
— backwards 0 mm				
— upwards 50 mm	·			
— at the side 20 mm				
— downwards 10 mm		10 mm		
• for live parts	·			
— forwards 20 mm				
— backwards 0 mm	— backwards	0 mm		
— upwards 50 mm	— upwards	50 mm		
— downwards 10 mm	— downwards	10 mm		
— at the side 20 mm	— at the side	20 mm		

Connections/ Terminals					
type of electrical connection					
for main current circuit	screw	screw-type terminals			
 for auxiliary and control circuit 	screw	v-type terminals			
Safety related data					
B10 value with high demand rate according to SN 31920	1 000	1 000 000			
proportion of dangerous failures					
with high demand rate according to SN 31920	73 %	73 %			
touch protection on the front according to IEC 60529	finger	finger-safe, for vertical contact from the front			
Communication/ Protocol					
protocol is supported					
 PROFINET IO protocol 	No	No			
PROFIsafe protocol	No	No			
protocol is supported AS-Interface protocol	No	No			
Certificates/ approvals					
General Product Approval		For use in hazard-	Declaration of Conformity		

Confirmation







ous locations





Test Certificates

Marine / Shipping

Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report









Marine / Shipping







Confirmation

other

Vibration and Shock

Railway

Environmental Confirmations

Environment

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=3RA2120-4EA27-0AP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-4EA27-0AP0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4EA27-0AP0

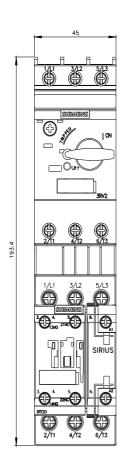
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

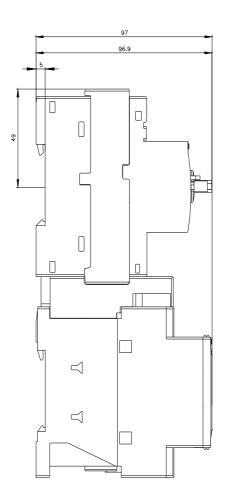
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-4EA27-0AP0&lang=en

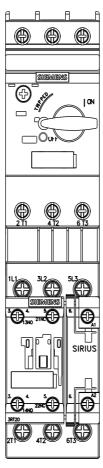
Characteristic: Tripping characteristics, I2t, Let-through current

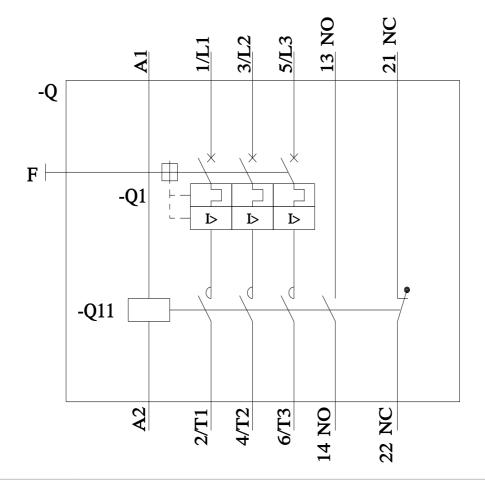
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4EA27-0AP0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-4EA27-0AP0&objecttype=14&gridview=view1









last modified: 4/17/2023 🖸