3RA2120-1CD23-0AK6





Fuseless motor starter Direct start 600VAC Size S0 1.8-2.5A 110/120VAC 50/60HZ screw connection For snapping onto 60 mm busbar systems Type of coordination 2 IQ = 150 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 	3RT2023-1AK60
 of the supplied circuit-breakers 	3RV2011-1CA10
 of the supplied busbar adapter 	<u>8US1251-5NT10</u>
 of the supplied link module 	3RA2921-1AA00
General technical data	
size of the circuit-breaker	S00
size of load feeder	S0
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	1.8 2.5 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	1.9 A
operating power at AC-3	
 at 400 V rated value 	750 W
• at 500 V rated value	1 100 W
Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value	110 V
• at 50 Hz rated value	88 121 V

* 46 00 Hz riad value 120 V 96 132 V 98 98 132 V 98 13				
apparent holding power of magnet coll at AC	at 60 Hz rated value			
Industries prover factor with the holding power of the coil Aurillary Scriots number of NC contacts for auxillary contacts 1 number of NC contacts for auxillary contacts 2 number of NC contacts for auxillary contacts 1 number of NC contacts for auxillary contacts 1 protective and monitoring functions trip class CLASS 10 design of the overload release 1 propose value current of instantaneous short-circuit file unit 1 UICSA retires 1 UICSA retires 1 UICSA retires 1 UICSA variaties 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Auxiliary circuit number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 rip class				
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Inumber of NO contacts for auxiliary contacts Protective and monitoring functions trip class design of the overload release trip class (CLASS 10 thermal (kimetallic) thermal (kimetallic) thermal (kimetallic) 3.5.A ULCSA ratings ULCSA ratings ULCSA ratings (Initial-oad current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • of 3-phase AC motor • at 200.288 V rated value • of 3-phase AC motor • at 200.288 V rated value • of 3-phase AC motor • at 200.288 V rated value • of 3-phase AC motor • at 200.288 V rated value • of 3-phase AC motor • at 200.288 V rated value • of 3-phase AC motor • at 400.09 V rated value • of 3-phase AC motor • at 400.00 V rated value • of 3-phase AC motor • at 400.00 V rated value • of 4-phase AC motor • at 400.00 V rated value • of 4-phase AC motor • at 400.00 V rated value • of 5-phase AC motor • at 400.00 V rated value • of 5-phase AC motor • at 400.00 V rated value • of 5-phase AC motor • at 400.00 V rated value • of 4-phase AC motor • at 400.00 V rated value • of 5-phase AC motor • at 400.00 V rated value • of 6-phase AC motor • of 6-phase AC motor • of 6-phase AC motor • of 7-phase AC motor • of 8-phase AC motor • of 7-phase AC motor • of 8-phase AC motor •		_		
Protective and monitoring functions trip class design of the overload reloase trapporas value current of instantamenous short-circuit trip unit UICSA retiges Tull-load current (FLA) for 3-phase AC motor at 80 00 V rated value at 800 V rated value at 800 V rated value at 224 A yielded mechanical performance (Itp) bit or single-phase AC motor at 200 V rated value at 200 V rated value 0.17 kp cordinates AC motor at 200 V rated value at 200,230 V rated value 0.5 kp at 800,400 V rated value at 15 kp Short-circuit protection product function short circuit protection greatesing of the short-circuit current (itp) at 800 V according to IEC 60447-41 rated value to short-circuit growth function short circuit protection for strapping onto 80 mm busbar systems mounting position mounting position nequired spacing for grounded parts - forwards backwards - upwards - upwards - at the side - upwards - up				
trip class design of the overload release tesponse value current of instantaneous short circuit trip unit UICSX ratings IIII-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 800 V rated value • or simple-phase AC motor — at 220 V rated value • of or simple-phase AC motor — at 220 V rated value • of or sphase AC motor — at 220 V rated value • of or sphase AC motor — at 220 V rated value • of or sphase AC motor — at 220 V rated value • of or sphase AC motor — at 220 V rated value — at 475 f800 V rated value • of or sphase AC motor — at 200 V rated value — at 675 f800 V rated value • 1.5 hp Short-circuit protection product function short circuit trip conditional short-circuit current (q) • at 400 V according to IEC 6847 4-1 rated value Installation from unding dimensions mounting position fastening method for snapping onto 60 mm busbar systems height vertical fastening method for snapping onto 60 mm busbar systems height 155 mm required spacing • for grounded parts — forwards — upwards — at the side — downwards • of nive parts — forwards • for live parts — downwards • of nive parts — downwards • of nive parts — downwards • of new and a supple of connectable conductor cross-sections for main contacts finely stranded villa connection for main contacts finely stranded villa		1		
design of the overload release response value current of instantaneous short-circuit trip unit UCSSA ratings full-load current (FLA) for 3-phase AC motor • at 800 V rated value • of single-phase AC motor • at 800 V rated value • of single-phase AC motor • at 200 V rated value • of single-phase AC motor • at 200 V rated value • of single-phase AC motor • at 200 V rated value • of single-phase AC motor • at 200 V rated value • at 900 V rated value • 150 V rated v	Protective and monitoring functions			
response value current of instantaneous short-circuit trip unit UICGS ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 800 V rated value • at 800 V rated value • at 800 V rated value • at 800 V rated value • for single-phase AC motor • at 220 V rated value • for single-phase AC motor • at 220 V rated value • of 3-phase AC motor • at 220 230 V rated value • at 75 5600 V rated value • at 400 V according to IEC 60047 4-1 rated value • at 400 V according to IEC 60047 4-1 rated value • at 400 V according to IEC 60047 4-1 rated value for snapping onto 60 mm busbar systems mounting position fastening method for snapping onto 60 mm busbar systems height • at 400 V according to IEC 60047 4-1 rated value for snapping onto 60 mm busbar systems height • at 70 for grounded parts • for grounded sparts • for grounded parts • for grounded sparts • for grounded parts • for grounded parts • for grounded parts • for wards • Jo mm • downwards • Jo mm • downwards • Jo mm • downwards • for low parts • forwards • for low parts • forwards • for many for parts • forwards • forwards • for many for parts • forwards • forwards • forwards • for we parts • forwards • forwards • for we parts • forwards • forw	trip class	C	CLASS 10	
Tull-oad current (FLA) for 3-phase AC motor				
full-load current (FLA) for 3-phase AC motor • at 460 V rated value • at 600 V rated value • 244 A yiolded mechanical performance (hp) • for single-phase AC motor — at 200 V rated value • of 3-phase AC motor — at 200208 V rated value • of 3-phase AC motor — at 200208 V rated value • of 3-phase AC motor — at 200208 V rated value — at 400480 V rated value — at 675/600 V rated value — at 75/600 V rated value — at	·	cuit trip unit 3	2.5 A	
at 480 V rated value at 600 V rated value 224 A yielded mechanical performance [hp] of for single-phase AC motor —at 220 V rated value of 3-phase AC motor —at 200208 V rated value 0.5 hp —at 480480 V rated value —bat 57600 V rated value —1 hp —at 57600 V rated value —at 576000 V rated value —at 600 V rated value —at	UL/CSA ratings			
validod mechanical performance [hp]	full-load current (FLA) for 3-phase AC motor			
yelded mechanical performance (hp) of or single-phase AC motor — at 200/280 V rated value of or 3-phase AC motor — at 200/280 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 960/480 V rated value — at 95/660 V rated value — 45/660 V rated	 at 480 V rated value 			
for single-phase AC motor		2	.24 A	
- at 230 V rated value • for 3-phase AC motor - at 200/280 V rated value - at 220/230 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 400 V according to IEC 60847-4-1 rated value - at 400 V according to IEC 60829 - at 400 V according to IEC 50829 - at 575 V according to IEC				
For 3-phase AC motor	· ·			
at 200/208 V rated value		0	.17 hp	
- at 220/230 V rated value 1 hp 1 h	•			
at 480480 V rated value 1.5 hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic conditional short-circuit trip to the short-circuit current (tq) at 400 V according to IEC 60947-4-1 rated value 153 000 A Installation mounting dimensions mounting position vertical fastening method for snapping onto 60 mm busbar systems height 250 mm width 45 mm depth 45 mm depth 155 mm required spacing for grounded parts forwards 0 mm at the side 9 mm abackwards for live parts forwards 10 mm abackwards for live parts forwards 10 mm abackwards for live parts forwards for live parts forwards forwards for live parts forwards formalls for live parts forwards for live parts forwards formalls forwards formalls forwards formalls forwards formalls forwards formall live formalls forwards formall live formalls forwards formall live formalls forwards formall live formalls forwards forwards formalls forwards			·	
- at 575/600 V rated value 1.5 hp Short-circuit protection product function short circuit protection was product function short circuit current (lq)				
Short-circuit protection product function short circuit trip conditional short-circuit current (tq) • at 400 V according to IEC 60947-4-1 rated value Installation/mounting/dimensions mounting position fastening method for snapping onto 60 mm busbar systems height 45 mm depth 155 mm required spacing • for grounded parts — forwards — at the side — downwards • for live parts — forwards — upwards • for forwards — upwards — downwards — downwards — upwards — at the side — downwards — upwards — at the side — parts — forwards — upwards — to mm • for forwards — upwards — to mm • for forwards — upwards — upwards — upwards — to mm • for forwards — upwards — upwards — upwards — upwards — to mm • for forwards — upwards — upwards — upwards — upwards — upwards — to mm • for forwards — upwards —			•	
product function short circuit protection design of the short-circuit trip conditional short-circuit trip at 400 V according to IEC 60947-4-1 rated value 153 000 A Installation/ mounting/ dimensions mounting position fastening method height 260 mm width 45 mm depth 155 mm required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards — forwards — forwards • for live parts — forwards — backwards — upwards — at the side — downwards — to rive parts — forwards — backwards — upwards — backwards — backwards — to mm • for live parts — forwards — to mm • for live parts — forwards — upwards — at the side — downwards — upwards — backwards — upwards — backwards — to mm • for live parts — forwards — the side — downwards — the side — at the side — at the side — at the side — at the side — at the side — at the side — t		1	.5 hp	
design of the short-circuit trip conditional short-circuit current (Iq)				
conditional short-circuit current (iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions 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 — upwards — at the side — downwards • for live parts — forwards — forwards — at the side — downwards • for live parts — forwards — upwards • at the side — at wards — at the side — at wards — upwards — shackwards — upwards • for live parts — forwards — to mm • or live parts — at the side — upwards — at the side 10 mm — to mm 2 x (2.5 6 mm²) stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate according to SN 31920 protection on the front according to IEC 60529 foreitficates/ approvals				
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- backwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection for main current circuit stranded connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Certificates/ approvals	·	1	0 mm	
- upwards - downwards - at the side Connections/ Terminals type of electrical connection for main current circuit stranded connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch provals 30 mm 10 mm 2 1 6 mm 2 1 10 mm², 2x (2.5 6 mm²) 1 6 mm²				
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Safety related data B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures with high demand rate according to SN 31920 73 % 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 Certificates/ approvals	type of connectable conductor cross-sections for		10 mm², 2x (2.5 6 mm²)	
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touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Certificates/ approvals		d rate 7	3 %	
Certificates/ approvals	protection class IP on the front according to II	EC 60529	P20	
	touch protection on the front according to IEC	60529 fi	nger-safe, for vertical contact from the front	
General Product Approval For use in hazard- Declaration of Conformity other	Certificates/ approvals			
	General Product Approval	For use in hazard	- Declaration of Conformity	other

Confirmation

EAC







Confirmation

Further information

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

https://press.siemens.com/qlobal/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=3RA2120-1CD23-0AK6

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2120-1CD23-0AK6}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1CD23-0AK6

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

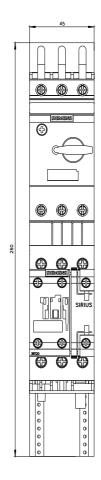
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-1CD23-0AK6&lang=en

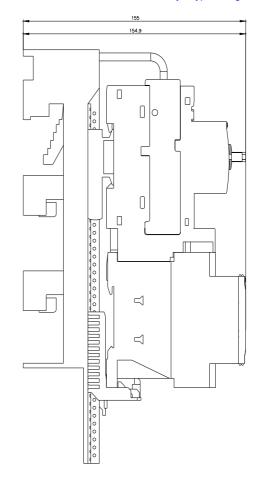
Characteristic: Tripping characteristics, I2t, Let-through current

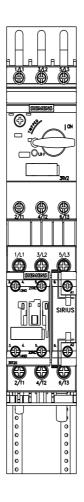
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1CD23-0AK6/char

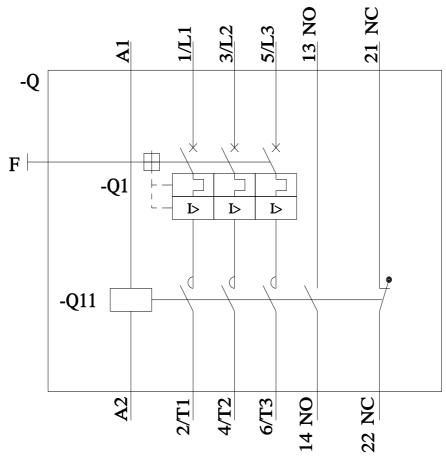
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-1CD23-0AK6&objecttype=14&gridview=view1









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