SIEMENS

Data sheet

3RA2120-0HA23-0AK6



Fuseless motor starter Direct start 600VAC Size S0 0.55-0.8A 110/120VAC 50/60HZ screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (contactor)

ambient temperature • during operation • during storage • during transport -50 +80 °C • during transport -55 +80 °C Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value	product brand name	SIRIUS		
manufacturer's article number of the supplied contactor of the supplied circuit-breakers of the supplied link module 3RA2921-1AA00 Concrat tochnical data size of the circuit-breaker size of tod feeder product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value degree of pollution 3 surge voltage resistance rated value 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 of during operation of during storage of during storage of during transport surge voltage resistance according to IEC 50068-2-7 6g / 11 ms mabilent temperature of during operation of during storage of during storage of during transport surge voltage of the switching contact dependent overload release operating voltage orating voltage orating voltage orating voltage orating frequency rated value operating frequency rated value at AC-3 rated value maximum operating power at AC-3 orating voltade value at 600 V rated value	product designation	non-fused motor starter 3RA2		
of the supplied contactor of the supplied ink module 3R2921-1AA00 Concrat technical data Size of the circuit-breaker Size of the circuit-br	design of the product	direct starter		
of the supplied circuit-breakers of the supplied link module 38A2921-1AA00 Size of the circuit-breaker size of the circuit-breaker size of the circuit-breaker size of load feeder S0 product extension auxiliary switch resultation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance according to IEC 60068-227 degree of pollution degree of pollution surge voltage resistance according to IEC 60068-27 degree of pollution degree of pollution surge voltage resistance according to IEC 60068-27 degree of pollution degree of pollution about type of assignment 2 Arabient conditions ambient temperature during operation during goeration during storage during storage during storage during transport 5-5+80 °C Main circuit number of poles for main current circuit design of the switching contact design of the switching contact design of the switching contact electromechanical adjustable current response value current of the current-dependent overload release operating voltage at AC-3 rated value at AC-3 rated value maximum doperating frequency rated value operating power at AC-3 at 400 V rated value at 500 V rated value a	manufacturer's article number			
of the supplied link module Size of the circuit-breaker size of load feeder product extension auxiliary switch graph of the switching to IEC 60068-247 graph of the switching contact or typical product extension auxiliary switch graph of the switching contact adjustable current response value current of the current-dependent overload release poperating voltage	 of the supplied contactor 	3RT2023-1AK60		
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 S1 S00 S00 S00 S00 S00 S00 S00 S00 S00	of the supplied circuit-breakers	3RV2011-0HA10		
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 890 V degree of pollution 3 surge voltage resistance rated value 68/ 11 ms mechanical service life (operating cycles) of contactor typical 10 000 000 type of assignment 2 Ambient conditions ambient temperature - during storage - 550 +80 °C - during transport - 55 +80 °C - during current circuit 3 design of the switching contact electromechanical adjustable current response value current of the current-dependent overload release - 690 V operating voltage - a AC-3 at add value - a AC-3 at 400 V rated value - a t 40-3 at 400 V rated value - a t 500 V	 of the supplied link module 	3RA2921-1AA00		
size of load feeder product extension auxiliary switch geree of pollution 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 type of assignment ambient temperature during operation during storage during storage during transport set of the switching contact adjustable current response value current of the current-dependent overload release operating voltage a rated value a ta AC-3 rated value maximum 690 V operating frequency rated value at AC-3 rated value at AO V rated value at 50 U rated value at 500 V rated v	General technical data			
product extension auxiliary switch yes insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical type of assignment 2 Ambient conditions ambient conditions ambient temperature during operation during storage during transport -50 +60 °C during transport 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 operating rower at AC-3 et 400 V rated value at 50 M rated value at 500 V rated value 250 W at 600 V rated value 250 W at	size of the circuit-breaker	S00		
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 Armbient conditions ambient temperature	size of load feeder	S0		
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 operating voltage • rated value 690 V operating frequency rated value 50 60 Hz operational current at AC-3 at 400 V rated value 0.6 A operating power at AC-3 • at 400 V rated value 180 W • at 50 V rated value 250 W • at 690 V rated value 370 W Control circuit/ Control Control supply voltage at AC • at 50 Hz rated value 110 V	product extension auxiliary switch	Yes		
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 operating voltage • rated value -3 rated value maximum 690 V operating frequency rated value 0.69 A operating power at AC-3 at 400 V rated value 0.6 A operating power at AC-3 • at 400 V rated value 180 W • at 50 V rated value 250 W • at 690 V rated value 250 W • at 690 V rated value 250 W • at 690 V rated value 370 W Control circuit/ Control Control supply voltage at AC • at 50 Hz rated value 110 V	insulation voltage with degree of pollution 3 at AC rated value	690 V		
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	degree of pollution	3		
mechanical service life (operating cycles) of contactor typical type of assignment 2 Ambient conditions ambient temperature • during operation • during storage • during transport number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • at AC-3 rated value operational current at AC-3 at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V vated value • at 690 V rated value	surge voltage resistance rated value	6 kV		
Ambient conditions ambient temperature • during operation • during storage • during transport **Description of the switching contact design of the switching contact dependent overload release operating voltage • at AC-3 rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 500 V rated value • at 690 V rated value • at 690 V rated value operating volt at 400 V rated value operating volt at 400 V rated value • at 500 V rated value • at 690 V value value • at 690 V value value • at 690 V value value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value	shock resistance according to IEC 60068-2-27	6g / 11 ms		
Ambient conditions ambient temperature • during operation • during storage • during transport Ambient circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V vated value • at 50 Hz rated value • at 50 Hz rated value	mechanical service life (operating cycles) of contactor typical	10 000 000		
ambient temperature • during operation • during storage • during transport -50 +80 °C -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 • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 500 V rated value • at 690 V rated value • at 500 Hz rated value • at 500 Hz rated value	type of assignment	2		
 during operation during storage during transport -50 +80 °C during transport -55 +80 °C Main circuit number of poles for main current 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 operating frequency rated value operating power at AC-3 at 400 V rated value operating power at AC-3 at 400 V rated value at 500 V rated value at 500 V rated value at 690 V Operating current at AC-3 at 400 V rated value at 500 V rated value at 690 V rated value at 700 V rated value 	Ambient conditions			
 during storage during transport -55 +80 °C Main circuit number of poles for main current 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 operating frequency rated value operating power at AC-3 at 400 V rated value operating power at AC-3 at 400 V rated value at 500 V rated value at 690 V Ontrol Gircuit/ Control control supply voltage at AC at 50 Hz rated value 110 V 	ambient temperature			
oduring transport	during operation	-20 +60 °C		
number of poles for main current circuit design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 50 V rated value • at 690 V Operating power at AC-3 • at 400 V rated value • at 500 V rated value 110 V	during storage	-50 +80 °C		
number of poles for main current circuit design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V 180 W 250 W at 690 V rated value Operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 500 V rated value 180 W Control circuit/ Control control supply voltage at AC • at 50 Hz rated value 110 V	 during transport 	-55 +80 °C		
design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating a to AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V operating power at AC-3 • at 690 V rated value • at 500 V rated value • at 500 V rated value operating control circuit/ Control control supply voltage at AC • at 50 Hz rated value 110 V	Main circuit			
adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value oat 690 V rated value 250 W • at 690 V rated value oat 690 V rated value 180 W control circuit/ Control control supply voltage at AC • at 50 Hz rated value 110 V	number of poles for main current circuit	3		
dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value oat 690 V control circuit/ Control control supply voltage at AC • at 50 Hz rated value 110 V	design of the switching contact	electromechanical		
rated value at AC-3 rated value maximum 690 V operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3		0.55 0.8 A		
at AC-3 rated value maximum operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value control circuit/ Control control supply voltage at AC at 50 Hz rated value 110 V	operating voltage			
operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value control circuit/ Control control supply voltage at AC • at 50 Hz rated value 110 V	rated value	690 V		
operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value control circuit/ Control control supply voltage at AC • at 50 Hz rated value 0.6 A 180 W 250 W 250 W 110 V	at AC-3 rated value maximum	690 V		
operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 690 V rated value 250 W • at 690 V rated value Control circuit/ Control control supply voltage at AC • at 50 Hz rated value 110 V	operating frequency rated value	50 60 Hz		
 at 400 V rated value at 500 V rated value at 690 V rated value 370 W Control circuit/ Control control supply voltage at AC at 50 Hz rated value 110 V 	operational current at AC-3 at 400 V rated value	0.6 A		
at 500 V rated value at 690 V rated value 370 W Control circuit/ Control control supply voltage at AC at 50 Hz rated value 110 V	operating power at AC-3			
at 690 V rated value 370 W Control circuit/ Control control supply voltage at AC at 50 Hz rated value 110 V	• at 400 V rated value	180 W		
Control circuit/ Control control supply voltage at AC • at 50 Hz rated value 110 V	• at 500 V rated value	250 W		
control supply voltage at AC • at 50 Hz rated value 110 V	at 690 V rated value	370 W		
• at 50 Hz rated value 110 V	Control circuit/ Control			
	control supply voltage at AC			
• at 50 Hz rated value 88 121 V	• 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 at 60 Hz rated value			96 132 V			
apparent holding power of magnet coil at AC		7.2 V				
inductive power factor with the holding power	of the soil	0.28				
Auxiliary circuit	or the con	0.20				
		1				
number of NC contacts for auxiliary contacts		1				
number of NO contacts for auxiliary contacts		1		_		
Protective and monitoring functions		01.40	0.40			
trip class		CLASS 10				
design of the overload release			mal (bimetallic)			
response value current of instantaneous short-circ	cuit trip unit	10.4 /	A			
Short-circuit protection						
product function short circuit protection		Yes				
design of the short-circuit trip		magn	etic			
conditional short-circuit current (Iq)						
• at 400 V according to IEC 60947-4-1 rated	value	153 0	00 A			
Installation/ mounting/ dimensions						
mounting position		vertic	al			
fastening method		Snap-	mounted to DIN rail or screw-mounted with addition	nal push-in lug		
height		193.1	mm			
width		45 mr	n			
depth		97.1 r	nm			
required spacing						
 for grounded parts 						
— forwards		10 mr	n			
— backwards		0 mm				
— upwards		30 mr	n			
— at the side		9 mm				
— downwards		10 mr	n			
• for live parts						
— forwards		10 mr	n			
— backwards		0 mm				
— upwards			30 mm			
— downwards		10 mm				
— at the side		9 mm				
Connections/ Terminals		9 111111				
	uit	corou	type terminals			
type of electrical connection for main current circuit			screw-type terminals			
type of connectable conductor cross-sections for main contacts stranded		1 1	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	1 000	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	IP20			
touch protection on the front according to IEC 60529 fing			inger-safe, for vertical contact from the front			
Certificates/ approvals						
General Product Approval	For use in haz ous locations	ard-	Declaration of Conformity	other		

Confirmation









Confirmation

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=3RA2120-0HA23-0AK6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-0HA23-0AK6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-0HA23-0AK6

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

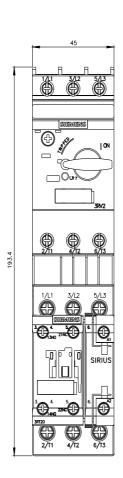
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-0HA23-0AK6&lang=en

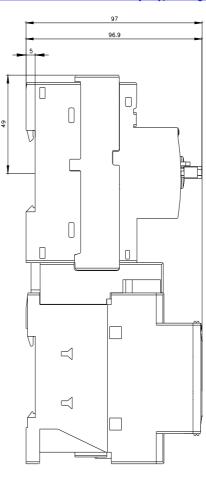
Characteristic: Tripping characteristics, I2t, Let-through current

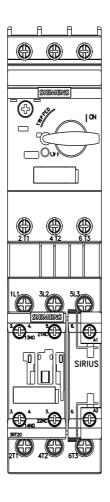
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-0HA23-0AK6/char

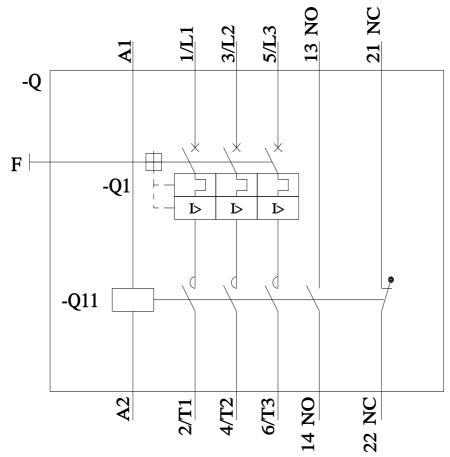
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-0HA23-0AK6&objecttype=14&gridview=view1









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