3RA2120-0GA23-0AK6

Data sheet



Fuseless motor starter Direct start 600VAC Size S0 0.45-0.63A 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)

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 	3RV2011-0GA10				
 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 acc. to IEC 60068-2-27	6g / 11 ms				
mechanical service life (switching cycles) of contactor typical	10 000 000				
type of assignment	2				
Ambient conditions					
ambient temperature during operation	-20 +60 °C				
 ambient temperature during storage 	-50 +80 °C				
 ambient temperature during transport 	-55 +80 °C				
Main circuit					
number of poles for main current circuit	3				
design of the switching contact	electromechanical				
design of the switching contact adjustable current response value current of the current-dependent overload release	electromechanical 0.45 0.63 A				
adjustable current response value current of the					
adjustable current response value current of the current-dependent overload release	0.45 0.63 A				
adjustable current response value current of the current-dependent overload release • operating voltage rated value	0.45 0.63 A 690 V				
adjustable current response value current of the current-dependent overload release • operating voltage rated value • operating voltage at AC-3 rated value maximum	0.45 0.63 A 690 V 690 V				
adjustable current response value current of the current-dependent overload release • operating voltage rated value • operating voltage at AC-3 rated value maximum operating frequency rated value	0.45 0.63 A 690 V 690 V 50 60 Hz				
adjustable current response value current of the current-dependent overload release • operating voltage rated value • operating voltage at AC-3 rated value maximum operating frequency rated value operational current at AC-3 at 400 V rated value	0.45 0.63 A 690 V 690 V 50 60 Hz				
adjustable current response value current of the current-dependent overload release • operating voltage rated value • operating voltage 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	0.45 0.63 A 690 V 690 V 50 60 Hz 0.6 A				
adjustable current response value current of the current-dependent overload release • operating voltage rated value • operating voltage 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	0.45 0.63 A 690 V 690 V 50 60 Hz 0.6 A				
adjustable current response value current of the current-dependent overload release • operating voltage rated value • operating voltage 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	0.45 0.63 A 690 V 690 V 50 60 Hz 0.6 A 180 W 180 W				

. = 0			4401	,	
at 50 Hz rated v			110 \		
at 50 Hz rated v				121 V	
at 60 Hz rated v			120 \		
at 60 Hz rated v				132 V	
	wer of magnet coil at		7.2 V	·A	
inductive power factor with the holding power of the coil		0.28			
Auxiliary circuit					
number of NC contact	cts for auxiliary conta	icts	1		
number of NO contact	cts for auxiliary conta	icts	1		
Protective and monito	ring functions				
trip class		CLASS 10			
design of the overloa	ad release		thermal (bimetallic)		
	response value current of instantaneous short-circuit trip		8.19 A		
Short-circuit protectio	n				
product function short circuit protection			Yes		
design of the short-o	-		magr	netic	
conditional short-cir					
	IEC 60947-4-1 rated v	alue	153 000 A		
Installation/ mounting/ dimensions					
mounting position			vertic	al	
fastening method				-mounted to DIN rail or screw-mounted with additional push-in lug	
height			193.		
width			45 m		
depth			97.1		
required spacing			57.1	111111	
• for grounded pa	rte				
— forwards	113		10 m	m	
— backwards			10 mm 0 mm		
		30 mm			
— upwards — at the side		9 mm			
— downwards			9 mm 10 mm		
for live parts			10 mm		
•			40		
— forwards		10 mm			
— backwards		0 mm			
— upwards	_		30 mm		
— downwards	5			10 mm	
— at the side		9 mm			
Connections/ Termina		,			
type of electrical connection for main current circuit		screv	v-type terminals		
type of connectable conductor cross-sections			102 0 (0.5 02)		
for main contacts stranded		1 10 mm², 2x (2.5 6 mm²)			
at AWG cables for main contacts		2x (16 12), 2x (14 8)			
 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 acc. to SN 31920		1 000	1 000 000		
proportion of dangerous failures with high demand rate acc. to SN 31920		73 %			
protection class IP on the front acc. to IEC 60529		IP20			
touch protection on the front acc. to IEC 60529			finge	finger-safe, for vertical contact from the front	
Certificates/ approvals					
General Product Approval	For use in hazardous locations	Declaration of Conformity	of	other	







Further information

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=3RA2120-0GA23-0AK6

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2120-0GA23-0AK6}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-0GA23-0AK6

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

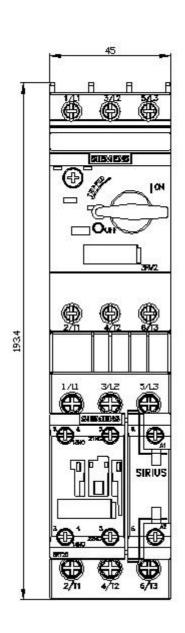
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-0GA23-0AK6&lang=en

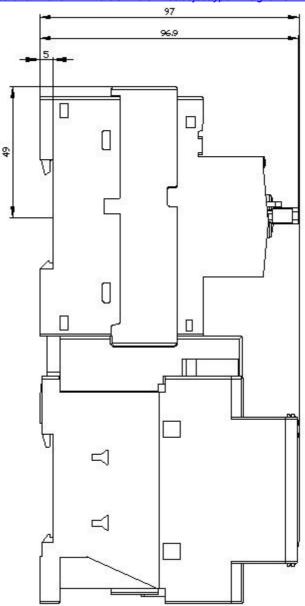
Characteristic: Tripping characteristics, I2t, Let-through current

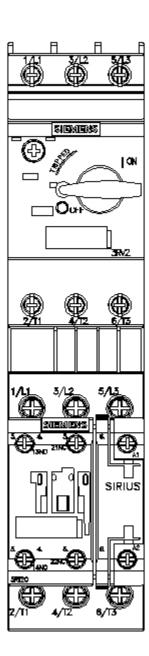
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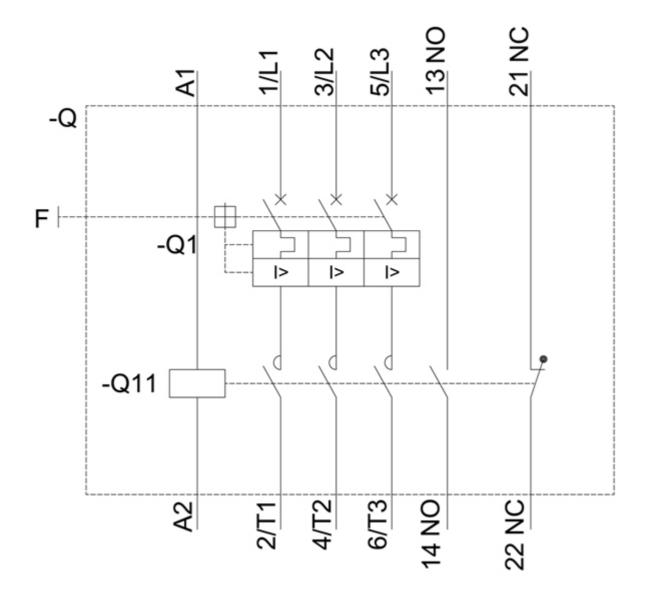
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-0GA23-0AK6&objecttype=14&gridview=view1









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