SIEMENS

Data sheet

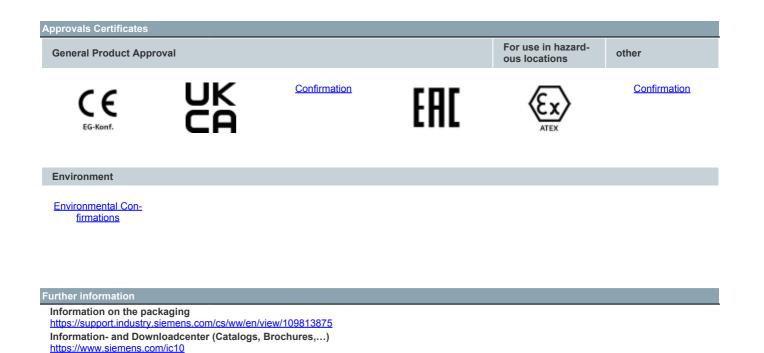
3RA2120-1AD23-0AK6



Fuseless motor starter Direct start 600VAC Size S0 1.1-1.6A 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)

5-9	
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 	<u>3RT2023-1AK60</u>
 of the supplied circuit-breakers 	<u>3RV2011-1AA10</u>
 of the supplied busbar adapter 	8US1251-5NT10
of the supplied link module	<u>3RA2921-1AA00</u>
General technical data	
size of the circuit-breaker	S00
size of load feeder	SO
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
SVHC substance name	Lead - 7439-92-1
Weight	1.06 kg
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	1.1 1.6 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	1.5 A
operating power at AC-3	
• at 400 V rated value	550 W
• at 500 V rated value	550 W
• at 690 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
 at 60 Hz rated value 	120 V
• at 60 Hz rated value	96 132 V
apparent holding power of magnet coil at AC	7.2 VA
inductive power factor with the holding power of the coil	0.28
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	20.8 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	1.6 A
at 600 V rated value	1.3 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 230 V rated value	0.1 hp
• for 3-phase AC motor	·····
- at 460/480 V rated value	0.75 hp
— at 575/600 V rated value	0.75 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	153 000 A
Installation/ mounting/ dimensions	
	vertical
mounting position	vertical
mounting position fastening method	for snapping onto 60 mm busbar systems
mounting position fastening method height	for snapping onto 60 mm busbar systems 260 mm
mounting position fastening method height width	for snapping onto 60 mm busbar systems
mounting position fastening method height width depth	for snapping onto 60 mm busbar systems 260 mm 45 mm
mounting position fastening method height width depth required spacing	for snapping onto 60 mm busbar systems 260 mm 45 mm
mounting position fastening method height width depth required spacing • for grounded parts	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — upwards	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 10 mm 10 mm 30 mm 30 mm 30 mm 30 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — at the side — downwards — backwards — at the side — downwards — at the side — upwards — at the side — upwards — at the side	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards — backwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side Connections/ Terminals	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 10 mm 9 mm 10 mm 9 mm 10 mm 9 mm 10 mm 9 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — at the side — downwards — backwards — at the side — downwards — at the side — upwards — at the side — upwards — at the side	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards — forwards — the side — downwards — backwards — upwards — downwards — odownwards — odownwards — at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 10 mm 9 mm 10 mm 2 mm 30 mm 10 mm 5 mm 10 mm 10 mm 10 mm 10 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards — forwards — forwards — the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 10 mm 9 mm 10 mm 9 mm 30 mm 10 mm 9 mm 10 mm 2 screw-type terminals 1 10 mm ² , 2x (2.5 6 mm ²)
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards — forwards — backwards — upwards — forwards — forwards — backwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 10 mm 9 mm 10 mm 9 mm 30 mm 10 mm 9 mm 10 mm 2 screw-type terminals 1 10 mm ² , 2x (2.5 6 mm ²)
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — of orwards — downwards • for live parts — forwards — upwards — downwards — upwards — downwards — upwards — downwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data proportion of dangerous failures with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 10 mm 10 mm 30 mm 10 mm 30 mm 10 mm 30 mm 10 mm 10 mm 2 mm 30 mm 10 mm 10 mm 30 mm 10 mm 10 mm 2 mm 30 mm 10 mm 10 mm 2 mm 30 mm 10 mm 30 mm 10 mm 30 mm 40 mm 50 mm
mounting position fastening method height width depth required spacing • for grounded parts - forwards - backwards - upwards - at the side - downwards • for live parts - forwards - at the side - downwards • for live parts - forwards - at the side - downwards - backwards - upwards - at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data proportion of dangerous failures with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 Electrical Safety	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 10 mm 10 mm 0 mm 30 mm 10 mm 9 mm 10 mm 30 mm 10 mm 30 mm 10 mm 9 mm 10 mm 9 mm 10 mm 9 mm 10
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — of orwards — downwards • for live parts — forwards — upwards — downwards — upwards — downwards — upwards — downwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data proportion of dangerous failures with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920	for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 10 mm 0 mm 30 mm 10 mm 9 mm 10 mm 30 mm 10 mm 9 mm 10 mm 30 mm



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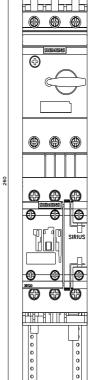
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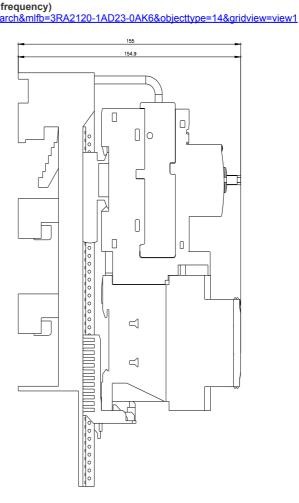
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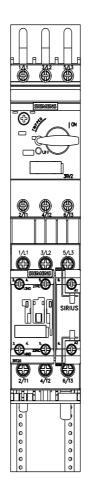
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

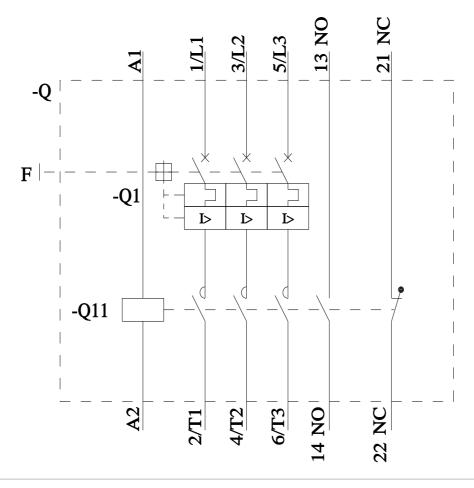
Industry Mall (Online ordering system)

Cax online generator









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