SIEMENS

Data sheet

3RA2220-0KD23-0AK6



Fuseless motor starter Reversing operation 600VAC Size S0 0.9-1.25A 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 (per contactor)

product brand name	SIRIUS
product designation	non-fused motor starter 3RA2
design of the product	reversing starter
manufacturer's article number	
 of the supplied contactor 	3RT2023-1AK60
 of the supplied circuit-breakers 	3RV2011-0KA10
 of the supplied RS assembly kit 	3RA2923-1DB1
 of the supplied busbar adapter 	<u>8US1251-5NT10</u>
 of the supplied link module 	<u>3RA2921-1AA00</u>
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 (switching cycles) of contactor typical	10 000 000
type of assignment	2
Substance Prohibitance (Date)	03/01/2017
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	0.9 1.25 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	1.1 A
operating power at AC-3	
• at 400 V rated value	370 W
• at 500 V rated value	550 W

• at 690 V rated value	750 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	0.28
coil	0.20
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
number of NO contacts for auxiliary contacts	2
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip	16.25 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	1.19 A
• at 600 V rated value	1.25 A
yielded mechanical performance [hp]	
 for 3-phase AC motor 	
— at 460/480 V rated value	0.5 hp
— at 575/600 V rated value	0.5 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
at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions	153 000 A
_	153 000 A vertical
Installation/ mounting/ dimensions	
Installation/ mounting/ dimensions mounting position	vertical
Installation/ mounting/ dimensions mounting position fastening method	vertical for snapping onto 60 mm busbar systems
Installation/ mounting/ dimensions mounting position fastening method height	vertical for snapping onto 60 mm busbar systems 260 mm
Installation/ mounting/ dimensions mounting position fastening method height width	vertical for snapping onto 60 mm busbar systems 260 mm 90 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth	vertical for snapping onto 60 mm busbar systems 260 mm 90 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	vertical for snapping onto 60 mm busbar systems 260 mm 90 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts	vertical for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards	vertical for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side	vertical for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards	vertical for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side	vertical for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards	vertical for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts	vertical for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm
Installation/ mounting/ dimensions 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 — upwards — upwards — other parts — forwards — backwards — upwards — upwards — upwards — upwards — upwards — upwards — upwards — upwards — upwards — upwards	vertical for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 30 mm 30 mm
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Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — backwards — at the side — downwards • for live parts — forwards — backwards — backwards — upwards — downwards — downwards — at the side — downwards — at the side — downwards — at the side — of orwards — at the side — of orwards — at the side — of orwards — at the side — of orman contacts stranded • at AWG cables for main contacts	vertical for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 9 mm 10 mm 9 mm 10 mm 9 mm 10 mm 9 mm screw-type terminals 1 10 mm², 2x (2.5 6 mm²) 2x (16 12), 2x (14 8)
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Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — 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 • at AWG cables for main contacts finely stranded with core end processing	vertical for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 9 mm 10 mm 9 mm 10 mm 9 mm 10 mm 9 mm screw-type terminals 1 10 mm², 2x (2.5 6 mm²) 2x (16 12), 2x (14 8)

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