SIEMENS

Data sheet

3RA2125-1CA23-0AP6



Fuseless motor starter Direct start 600VAC Size S0 1.8-2.5A 220/240VAC 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 (MSP) 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 	3RT2023-1AP60
 of the supplied circuit-breakers 	3RV2011-1CA15
 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 (switching 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	
operating power at AC-3 • at 400 V rated value	750 W
	750 W 1 100 W
• at 400 V rated value	
at 400 V rated valueat 500 V rated value	

• at 50 Hz rated value	176 242 V
 at 50 Hz rated value at 60 Hz rated value 	176 242 V 240 V
at 60 Hz rated value	192 264 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	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 unit	32.5 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	2.15 A
 at 600 V rated value 	2.24 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 230 V rated value	0.17 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	0.5 hp
— at 220/230 V rated value	0.5 hp
— at 460/480 V rated value	1 hp
— at 575/600 V rated value	1.5 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
Installation/ mounting/ dimensions	
mounting position	vertical
	VEILICAI
fastening method	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm
	Snap-mounted to DIN rail or screw-mounted with additional push-in lug
fastening method height	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm
fastening method height width	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm
fastening method height width depth	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm
fastening method height width depth required spacing	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm
fastening method height width depth required spacing • for grounded parts	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm
fastening method height width depth required spacing • for grounded parts — forwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards • for live parts — backwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 10 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards • for live parts — upwards — upwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 30 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — upwards • for live parts — forwards — backwards — downwards — downwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 30 mm 10 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — downwards • for live parts — at wards — backwards — upwards — at the side — upwards — at the side	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 30 mm 10 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — ownwards • for live parts — forwards — upwards — at the side — downwards — at the side — ownwards — at the side — connections/ Terminals	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 30 mm 9 mm 30 mm 9 mm 30 mm 9 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — downwards • for live parts — forwards — upwards — at the side — upwards — at the side Connections/ Terminals type of electrical connection for main current circuit	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 30 mm 9 mm 30 mm 9 mm 30 mm 9 mm
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 — downwards — at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 9 mm 10 mm 9 mm 30 mm 9 mm 10 mm 9 mm 10 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — upwards — downwards • for live parts — at the side — 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 connectable conductor cross-section for main contacts	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 10 mm 9 mm 10 mm 30 mm 10 mm 2 mm 30 mm 10 mm 10 mm 2 mm 30 mm 10 mm 10 mm 2 mm 30 mm 10 mm 10 mm 2 mm 30 mm 10 mm 10 mm 2 mm 30 mm
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — ownwards — 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 connectable conductor cross-section for main contacts finely stranded with core end processing	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 0 mm 30 mm 9 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)
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — ownwards • for live parts — 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 • at AWG cables for main contacts connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 0 mm 30 mm 9 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)
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — downwards • for live parts — 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 • at AWG cables for main contacts 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	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 0 mm 30 mm 9 mm 10 mm 0 mm 30 mm 9 mm 10 mm 9 mm screw-type terminals 1 10 mm², 2x (2.5 6 mm²) 2x (16 12), 2x (14 8) 1 6 mm² 1 000 000
fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — ownwards • for live parts — forwards — 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 • at AWG cables for main contacts connectable conductor cross-section for main contacts <td>Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 0 mm 30 mm 9 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) 1 6 mm²</td>	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 0 mm 30 mm 9 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) 1 6 mm²

60529			
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front	
Certificates/ approvals			
General Product Approval	For use in ha ous locations		other
			Confirmation
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