SIEMENS

Data sheet

3RA2225-1GB24-0AP6

	Fuseless motor starter Reversing operation 600VAC Size S0 4.5-6.3A 220/240VAC 50/60HZ screw connection For 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (MSP)
	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 	<u>3RT2024-1AP60</u>
 of the supplied circuit-breakers 	<u>3RV2011-1GA15</u>
 of the supplied RH assembly kit 	<u>3RA2923-1BB1</u>
 of the supplied busbar adapter 	<u>3RA2922-1AA00</u>
 of the supplied link module 	<u>3RA2921-1AA00</u>
 of the supplied standard mounting rail adapter 	<u>3RA2922-1AA00</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
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-	4.5 6.3 A
dependent overload release	
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	5 A
operating power at AC-3	
at 400 V rated value	2 200 W
• at 500 V rated value	3 000 W
Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value	220 V
at 50 Hz rated value	176 242 V
at 60 Hz rated value	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	3
number of NO contacts for auxiliary contacts	3
number of NO contacts for auxiliary contacts	J

trip class CLASS 10 design of the vertexidar release Premail (photellic) response value current of instantaneous short-circuit thy unit 81.9.A ULC3A-rainings ULC3A-rainings ULC3A-rainings A.9.A 4.8.0 V med value 4.9.A • at 80.0 V med value 6.3.A yielded mechanical performance [tp] 6.5 hp • or angle-phose AC motor 0.5 hp • at 200208 V radie value 0.5 hp • at 202208 V radie value 1.5 hp • at 202208 V radie value 1.5 hp • at 4004400 V duel value 3.16 hp • at 4004400 V radie value 1.5 hp • at 4004400 V radie value 1.5 hp • at 4004400 V radie value 1.5 hp • at 600 V according to EC 0047-4-1 ratexi value 153 000 A • at 600 V according to EC 0047-4-1 ratexi value 153 000 A • at 600 V according to EC 0047-4-1 ratexi value 153 000 A • at 600 V according to EC 0047-4-1 ratexi value 150 0 mm • at 600 V according to EC 0047-4-1 ratexi value 150 0 mm • at 600 V according to EC 0047-4-1 ratexi value	Protective and monitoring functions						
response value current of instantaneous short-circuit trip unit 81.9 A UICSA ratings Violand current (FLA) for 3-phase AC motor 4.8 A • at 480 V rated value 6.3 A • for single-phase AC motor 6.3 A • of as type phase AC motor 0.25 hp • at 200 V rated value 0.5 hp • of as type phase AC motor 1 hp - at 200/280 V rated value 0.5 hp - at 200/280 V rated value 1 hp - at 200/280 V rated value 1 hp - at 200/280 V rated value 1 hp - at 200/280 V rated value 3 hp - at 250/280 V rated value 3 hp - at 450/480 V rated value 3 hp - at 450/480 V rated value 3 hp - at 450 V according to IEC 600474-1 rated value 150 000 A • at 400 vaccording to IEC 600474-1 rated value 150 000 A • at 400 vaccording to IEC 600474-1 rated value 150 000 A • at 400 vaccording to IEC 600474-1 rated value 150 000 A • at 400 vaccording to IEC 600474-1 rated value 150 000 A • at 400 vaccording to IEC 600474-1 rated value 100 000 A • at 600 vaccording to IEC 600474-1 rated value 100 rm • at 600 vaccording to IEC 600474-1 rated value 100 rm • at 600 vaccording to IEC 600474-1 rated value <td< td=""><td>trip class</td><td>CLAS</td><td>S 10</td><td></td></td<>	trip class	CLAS	S 10				
ULCSA ratings full-od current (PLA) for 3-phase AC motor - of 160 V rated value 6.5 A * of single-phase AC motor 6.5 A of single-phase AC motor 0.5 hp	design of the overload release	therm	al (bimetallic)				
full-ad a current (FLA) for 3-phase AC motor 4.8 A • at 80 V rated value 4.8 A • at 80 V rated value 6.3 A yielded mechanical performance (hr) 6.3 A • or single phase AC motor 0.25 hp - at 200 V rated value 0.5 hp • or single phase AC motor 1.5 hp - at 200/260 V rated value 1.5 hp - at 200/260 V rated value 3 hp - at 200/260 V rated value 3 hp - at 450/480 V rated value 5 hp Short-clincuit protection Yes design of the short-clincuit protection Yes otasion short-clincuit protection Yes otasion V according to IE C60947-4-1 rated value 163 000 A • at 600 V according to IE C60947-4-1 rated value 163 000 A • at 600 V according to IE C60947-4-1 rated value 163 000 A • at 600 V according to IE C60947-4-1 rated value 163 000 A • at 600 V according to IE C60947-4-1 rated value 100 000 A Installation mounting/ dimensions wertical mounting pacing • for younded parts • for younded parts 0 mm • for younded parts 0 mm • for younded parts 0 mm • for younded 30 mm • or younded 30 mm </td <td>response value current of instantaneous short-circuit trip unit</td> <td>81.9 A</td> <td>1</td> <td></td>	response value current of instantaneous short-circuit trip unit	81.9 A	1				
 e1 480 V rated value e1 480 V rated value e3 A e1 480 V rated value e3 A e1 480 V rated value e1 7 angle-phase AC motor e1 230 V rated value e1 230 V rated value e1 230 V rated value e1 22023 V rated value e1 22023 V rated value e1 22023 V rated value e1 3 hp e1 22023 V rated value e1 3 hp e1 22023 V rated value e1 3 hp e1 275000 V rated value e1 577500 V rated value e1 577500 V rated value e1 577500 V rated value e1 5000 A e1 577500 V rated value e1 400 V according to IEC 6047-41 rated value e1 400 V according to IEC 6047-41 rated value e1 400 V according to IEC 6047-41 rated value e1 400 V according to IEC 6047-41 rated value e1 400 V according to IEC 6047-41 rated value e1 5000 A e1 400 V according to IEC 6047-41 rated value e1 500 0 A e1 500 V according to IEC 6047-41 rated value e1 500 0 A e1 500 V according to IEC 6047-41 rated value e1 500 V according to IEC 6047-41 rated value e1 500 0 A e1 500 0 A	UL/CSA ratings						
e at 600 V rated value in the formance (tp) in the formanc	full-load current (FLA) for 3-phase AC motor						
yielded mechanical performance [hp] for single-phase AC motor 	at 480 V rated value	4.8 A					
for single-phase AC motor - at 1101/20 V rated value 0.25 hp 0.25 hp 0.5 hp - at 200228 V rated value 0.5 hp - at 220238 V rated value 1 hp - at 220238 V rated value 1 hp - at 220238 V rated value 1 hp - at 460:480 V rated value 3 hp - at 460:480 V rated value 3 hp - at 450:480 V rated value 3 hp - at 400-480 V rated value 3 hp - at 400 vaccording to EC 6087-4-1 rated value - at 300 V according to EC 6087-4-1 rated value - at 300 V according to EC 6087-4-1 rated value - at 300 V according to EC 6087-4-1 rated value - at 400 vaccording to EC 6087-4-1 rated value - at 400 vaccording to EC 6087-4-1 rated value - at 400 vaccording to EC 6087-4-1 rated value - at 400 vaccording to EC 6087-4-1 rated value - at 400 vaccording to EC 6087-4-1 rated value - at 400 vaccording to EC 6087-4-1 rated value - at 500 V according to EC 6087-4-1 rated value - at 500 V according to EC 6087-4-1 rated value - at 500 V according to EC 6087-4-1 rated value - at 500 V according to EC 6087-4-1 rated value - at 500 V according to EC 6087-4-1 rated value	 at 600 V rated value 	6.3 A					
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	.	0.25 h	D				
• for 3 phase AC motor - at 200/208 V rated value 1 hp - at 200/208 V rated value 1.5 hp - at 400/480 V rated value 3 hp Short-circuit protection Yes design of the short-circuit protection Yes conditional short-circuit protection Yes conditional short-circuit current (lq) 153 000 A • at 400 V according to IEC 60947.4-1 rated value 150 000 A • at 500 V according to IEC 60947.4-1 rated value 100 000 A Instantiation mounting/dimensions vertical mounting position sasp-on fastening on 35 mm DIN rail height 226 mm width 90 mm dopth 120 mm - forwards 0 mm - backwards 0 mm - backwards 0 mm - dowmads 10 mm - backwards 0 mm - backwards 0 mm	— at 230 V rated value						
- at 200/208 V rated value 1 hp - at 220/230 V rated value 1 hp - at 60/480 V rated value 3 hp - at 67/5600 V rated value 5 hp Short-circuit protection Yes design of the short-circuit trip magnetic conditional short -circuit current (lq) • at 400 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value 103 000 A • at 400 V according to IEC 60947-4-1 rated value 100 000 A Imbalation/mutting/ dimensions vertical mounting position vertical fastening method snap-on fastening on 35 mm DIN rail height 265 mm width 90 mm dopth 120 mm required spacing • for grounded parts - forwards 0 mm - downwards 0 mm - downwards 10 mm - backwards 0 mm - downwards 10 mm - dow		F					
- at 220/230 V rated value 1.5 hp - at 460/480 V rated value 3 hp Short-circuit protection Yes gelign of the short-circuit tryp magnetic conditional short-circuit aurent (ki) 153 000 A • at 400 V according to IEC 60947-4-1 rated value 153 000 A • at 500 V according to IEC 60947-4-1 rated value 100 000 A Installator/ mounting/ dimensions vertical mounting position scap-on fastening on 35 mm DIN rail height 265 mm width 90 mm dopt 10 mm required spacing 10 mm • for grounded parts 10 mm - forwards 0 mm - downwards 10 mm - at the side 9 mm - downwards 10 mm - backwards 0 mm - downwards 10 mm - backwards 0 mm - at the side 9 mm - downwards 10 mm - backwards 0 mm - at the side 9 mm - downwards 10 mm - backwards 0 mm - at the side 9 mm - downwards 10 mm - backwards 0 mm - downwards		1 hp					
− at 575/600 V rated value 5 hp Short-circuit protection Yes design of the short-circuit cruit protection Yes design of the short-circuit current (lq) magnetic - at 400 V according to EC 60947-4-1 rated value 153 000 A • at 400 V according to EC 60947-4-1 rated value 100 000 A Installation/ mounting/dimensions vertical mounting position vertical fastening method snap-on fastening on 35 mm DIN rail height 225 mm width 90 mm depth 120 mm required spacing • for grounded parts - forwards 10 mm - at the side 9 mm - at the side 9 mm - downwards 10 mm - backwards 30 mm - at the side 9 mm - downwards 10 mm - backwards 30 mm - downwards 10 mm - backwards 30 mm - downwards 10 mm - downwards<							
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• at 400 V according to IEC 60947-4-1 rated value 153 000 A • at 500 V according to IEC 60947-4-1 rated value 100 000 A Installation/ mounting/dimensions vertical fastening method snap-on fastening on 35 mm DIN rail height 265 mm width 90 mm depth 120 mm required spacing 0 mm • for grounded parts 0 mm - forwards 0 mm - backwards 0 mm - at the side 9 mm - downwards 10 mm - forwards 0 mm - downwards 10 mm - backwards 0 mm - downwards 10 mm - backwards 0 mm - downwards 10 mm - at the side 9 mm - downwards 10 mm - at the side 9 mm - at the side 9 mm Connectable conductor cross-section for main contacts finely stranded with core end processing 1 6 mm² Safety related data 100000 B10 value with high demand rate according to IEC 60529 IP20 protection on the front according to IEC 60529 IP20 for use in hazard- for use in hazard- for use with high demand rate according to IEC		magne	500				
• at 500 V according to IEC 60947-4-1 rated value 100 000 A Installation/ mounting dimensions vertical mounting position snap-on fastening on 35 mm DIN rail height 265 mm width 90 mm depth 120 mm required spacing • • for grounded parts 0 mm - ackwards 0 mm - ackwards 0 mm - upwards 30 mm - at the side 9 mm - forwards 0 mm - downwards 0 mm - downwards 30 mm - forwards 0 mm - downwards 10 mm - backwards 0 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 9 mm - downwards 10 mm - at the side 9 mm connectable conductor cross-sections for main contacts finely stranded with core and processing 1 6 mm² Starty related tata 1 000 000		450.0	20.4				
Installation/ mounting/ dimensions mounting position fastening method snap-on fastening on 35 mm DIN rail height 265 mm width 90 mm depth 120 mm required spacing • for grounded parts - forwards 10 mm - upwards 0 mm - upwards 0 mm - downwards 10 mm - upwards 10 mm - 2 downwards 10 mm - 2 downwards 10 mm - 3 mm - 2 downwards 10 mm - 2 downwards 10 mm - 3 mm - 2 downwards 10 mm - 2 downwards 10 mm - 3 mm - 2 downwards 10 mm - 4 downwards 10	6						
mounting position vertical fastening method snap-on fastening on 35 mm DIN rail height 265 mm width 90 mm depth 120 mm required spacing - - forwards 10 mm - backwards 0 mm - upwards 30 mm - at the side 9 mm - downwards 10 mm - downwards 0 mm - downwards 10 mm get celtcical c	-	100 00	100 000 A				
fastening method snap-on fastening on 35 mm DIN rail height 265 mm width 90 mm depth 120 mm required spacing 120 mm • for grounded parts 0 mm - backwards 0 mm - backwards 0 mm - upwards 30 mm - at the side 9 mm - downwards 10 mm - forwards 10 mm - forwards 0 mm - downwards 10 mm - forwards 0 mm - downwards 0 mm - at the side 9 mm - downwards 10 mm - downwards 10 mm - at the side 9 mm - at the side 9 mm - at the side 9 mm Connections/ Terminals 10 mm type of electrical connection for main current circuit screw-type terminals type of electrical connection for main contacts finely stranded with core end processing 1 10 mm², 2x (2.5 6 mm²) Safety related data B10 value with high demand rate according to SN 1920 1 000 000							
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• for grounded parts - forwards 10 mm - backwards 0 mm - upwards 30 mm - upwards 30 mm - at the side 9 mm - downwards 10 mm - downwards 10 mm • for live parts - - forwards 10 mm - backwards 0 mm - upwards 30 mm - downwards 10 mm - at the side 9 mm - downwards 10 mm - at the side 9 mm Connections/ Terminals 10 mm type of electrical connection for main current circuit screw-type terminals type of connectable conductor cross-sections for main contacts finely stranded with core end processing 1 10 mm² 2x (2.5 6 mm²) Safety related data E 1 B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures with high demand rate according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 <td< td=""><td>depth</td><td>120 m</td><td colspan="5">120 mm</td></td<>	depth	120 m	120 mm				
- forwards 10 mm - backwards 0 mm - upwards 30 mm - at the side 9 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - forwards 0 mm - backwards 0 mm - upwards 30 mm - downwards 10 mm - upwards 30 mm - downwards 10 mm - at the side 9 mm Connections/Terminals tweeter the side type of electrical connection for main current circuit screw-type terminals type of eloculator cross-sections for main contacts 1 10 mm², 2x (2.5 6 mm²) stranded connectable conductor cross-sections for main contacts stranded with core end processing 1 6 mm² Safety related data 73 % according to SN 31920	required spacing						
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- at the side 9 mm - downwards 10 mm • for live parts 10 mm - forwards 10 mm - backwards 0 mm - backwards 0 mm - upwards 30 mm - downwards 10 mm - at the side 9 mm Connections/ Terminals type of electrical connection for main current circuit screw-type terminals type of connectable conductor cross-sections 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 1 000 000 proportion of dangerous failures with high demand rate according to IEC 60529 IP20 touch protection on the front according to IEC 60529 for use in hazard- Declaration of Conformity	— backwards	0 mm	0 mm				
	— upwards	30 mn	ı				
• for live parts 10 mm - forwards 0 mm - backwards 0 mm - upwards 30 mm - downwards 10 mm - at the side 9 mm Connections/ Terminals 9 mm connections of main current circuit screw-type terminals type of electrical connection for main current circuit screw-type terminals type of connectable conductor cross-sections for main contacts stranded 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 73 % B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures with high demand rate according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 Inger-safe, for vertical contact from the front Certificates/ approvals For use in hazard-	— at the side	9 mm	9 mm				
- forwards 10 mm - backwards 0 mm - upwards 30 mm - downwards 10 mm - at the side 9 mm Connections/ Terminals type of electrical connection for main current circuit screw-type terminals type of connectable conductor cross-sections for main contacts finely stranded 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 1 6 mm² B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures with high demand rate according to IEC 60529 IP20 touch protection on the front according to IEC 60529 Ip20 touch protection on the front according to IEC 60529 Ip20 touch protection on the front according to IEC 60529 Ip20 touch protection on the front according to IEC 60529 Ip20 touch protection on the front according to IEC 60529 Ip20 touch protection on the front according to IEC 60529 Ip20 touch protection on the front according to IEC 60529 Ip20 touch protection on the front according to IEC 60529 Ipace in hazard- <td>— downwards</td> <td>10 mn</td> <td colspan="4">10 mm</td>	— downwards	10 mn	10 mm				
	 for live parts 						
	— forwards	10 mn	10 mm				
	— backwards	0 mm	0 mm				
— at the side 9 mm Connections/ Terminals type of electrical connection for main current circuit screw-type terminals type of connectable conductor cross-sections for main contacts stranded 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 1 6 mm² B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures with high demand rate according to SN 31920 1 000 000 protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 Ip20 touch protection on the front according to IEC 60529 Ip20 certificates/ approvals For use in hazard- Declaration of Conformity Declaration of Conformity	— upwards	30 mn	30 mm				
Connections/ Terminals type of electrical connection for main current circuit screw-type terminals type of connectable conductor cross-sections for main contacts stranded 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 1 6 mm² B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures with high demand rate according to SN 31920 1 000 000 protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 Ip20 couch protection on the front according to IEC 60529 For use in hazard- Certificates/ approvals For use in hazard-	— downwards	10 mn	10 mm				
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Certificates/ approvals For use in hazard- Declaration of Conformity							
General Product Approval For use in hazard-							
				Declaration of Conformity			

<u>Confirmation</u>	(UL) u	EAC	Ex ATEX	CE EG-Konf.	UK CA		
Test Certificates		Marine / Shipping					
Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS	BUREAU VERITAS	Llovd's Register uts	PRS		
Marine / Shipping			other	Railway			
RINA	KARS RARES	DNV-GL	<u>Confirmation</u>	Vibration and Shock			
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/c10 Industry Mall (Online ordering system) http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2225-1GB24-0AP6 Cax online generator http://support.industry.siemens.com/www/cAXorder/default.aspx?lang=en&mlfb=3RA2225-1GB24-0AP6 Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://support.industry.siemens.com//siMev/njps/3RA2225-1GB24-0AP6 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RA2225-1GB24-0AP6⟨=en Characteristic: Tripping characteristics, I*t, Let-through current							
https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-1GB24-0AP6/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2225-1GB24-0AP6&objecttype=14&gridview=view1							

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