Data sheet

3RA2220-1FB24-0AP6



Fuseless motor starter Reversing operation 600VAC Size S0 3.5-5A 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 (per contactor)

product designation non-fused motor starter 3RA2 design of the product reversing starter manufacturer's article number of the supplied contactor of the supplied circuit-breakers of the supplied RH assembly kit 3RA2923-1BB1 of the supplied busbar adapter of the supplied link module of the supplied standard mounting rail adapter SIRIUS non-fused motor starter 3RA2 reversing starter 3RT2024-1AP60 3RV2011-1FA10 3RA2923-1BB1 3RA2923-1AB00 3RA2921-1AA00 3RA2921-1AA00		
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• of the supplied standard mounting rail adapter 3RA2922-1AA00		
Consent technical data		
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 (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-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 3.6 A		
operating power at AC-3		
• at 400 V rated value 1 500 W		
• at 500 V rated value 2 200 W		
Control circuit/ Control		

control supply voltage at AC		
* at 50 Hz rated value 178 _ 242 V * at 60 Hz rated value 240 V * at 60 Hz rated value 192 _ 254 V * at 60 Hz rated value 192 _ 254 V * All fluetures power for magnet coll at AC 22 * anumber of NC contacts for auxiliary contacts 2 * number of NC contacts for auxiliary contacts 2 * number of NC contacts for auxiliary contacts 2 * number of NC contacts for auxiliary contacts 2 * number of NC contacts for auxiliary contacts 2 * number of NC contacts for auxiliary contacts 2 * number of NC contacts for auxiliary contacts 10 * design of the overload release 10 * expose value current of instantaneous short-creuit trip unit 10 * at 40 V rated value 4.5 A * at 60 V rated value 4.5 A * at 60 V rated value 4.5 A * at 10 V rated value 0.5 hp * at 37 Sphase AC motor 1 hp * at 220230 V rated value 1 hp * at 220230 V rated value 3 hp * at 37 S800 V rated value 3 hp * at 37 S800 V rated value 3 hp * at 37 S800 V rated value 3 hp * at 37 S800 V rated value 3 hp * at 37 S800 V rated value 3 hp * at 37 S800 V rated value 1 hp * at 30 V according to EC 60847-4 rated value 10 0000 A * at 400 V according to EC 60847-4 rated value 10 0000 A * at 400 V according to EC 60847-4 rated value 10 0000 A * at 400 V according to EC 60847-4 rated value 10 mm * at 600 V according to EC 60847-4 rated value 10 mm * at 600 V according to EC 60847-4 rated value 10 mm * at 600 V according to EC 60847-4 rated value 10 mm * at 600 V according to EC 60847-4 rated value 10 mm * at 600 V according to EC 60847-4 rated value 10 mm * at 600 V according to EC 60847-4 rated value 10 mm * at 600 V according to EC 60847-4 rated value 10 mm * at 600 V according to EC 60847-4 rated value 10 mm * at 600 V according to EC 60847-4 rated value 10 mm * at 600 V according to EC 60847-4 rated v	control supply voltage at AC	
a 16 0 Hz rated value	• at 50 Hz rated value	220 V
• at 00 Hz reted value 192, 284 V	• at 50 Hz rated value	176 242 V
apparant holding power of magnet coil at AC	at 60 Hz rated value	240 V
Auxiliary circuit number of NC contacts for auxiliary contacts 2 number of NC contacts for auxiliary contacts 2 number of NC contacts for auxiliary contacts 2 response value current of instantaneous short-circuit trip unit UNCSA ratios (INCSA ratios Full-load current (FLA) for 3-phase AC motor * at 480 V rated value * at 600 V rated value * at 600 V rated value * of 100 V valued value * of 200 V rated	• at 60 Hz rated value	192 264 V
Ausiliary circuit number of NC contacts for auxiliary contacts 2 Protectives and monitoring functions trip class CLASS 10 design of the overload release tempore value current of instantaneous short-circuit trip unit 10.153 A ratings full-load current (FLA) for 3-phase AC motor ** at 460 V rated value ** at 600 V rated value ** at 600 V rated value ** pietoded mechanical performance (tp) ** of angle phase AC motor ** at 1000 V rated value ** of 3-phase AC motor ** at 1000 V rated value ** at 200200 V rated value ** at 200200 V rated value ** of 3-phase AC motor ** at 200200 V rated value ** at 300000000000000000000000000000000000	apparent holding power of magnet coil at AC	7.2 VA
number of INC contacts for auxiliary contacts 2 number of INC contacts for auxiliary contacts 2 number of INC contacts for auxiliary contacts 2 response value current of instantaneous short-circuit trip unit 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	inductive power factor with the holding power of the coil	0.28
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Tesponse value current of instantaneous short-circuit trip unit	·	thermal (bimetallic)
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• at 600 V rated value 4.55 A		4 8 A
yielded mechanical performance (hp) • for single-phase AC motor — at 1101/20 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 2200/208 V rated value — at 2200/208 V rated value — at 575/000 V rated value — at 675/000 V r		
• for single-phase AC motor — at 110/120 / rated value — at 230 / rated value • for 3-phase AC motor — at 200238 / rated value • for 3-phase AC motor — at 220/230 / rated value — at 220/230 / rated value — at 460/480 / rated value — at 460/480 / rated value — at 57/600 / rated value — at 50/400 / vated value — at 500 / vated value — at 500 / vated value — at 500 / vacording to EC 60947-4-1 rated value • at 500 / vacording to EC 60947-4-1 rated value • at 500 / vacording to EC 60947-4-1 rated value 100 000 A Installation/mounting/ dimensions mounting position vertical fastening method snap-on fastening on 35 mm DIN rail height 265 mm vertical fastening method snap-on fastening on 35 mm DIN rail height 205 mm vertical fastening method snap-on fastening on 35 mm DIN rail height 205 mm on mm varied spacing for grounded parts — forwards — backwards — upwards — upwards — downwards — the side — downwards — on mm vertical for the parts — forwards — on mm on mm on mm of or grounded parts — downwards — on mm o		
- at 230 V rated value		
■ at 230 V rated value ■ for 3-phase AC motor ■ at 200/230 V rated value ■ at 220/230 V rated value ■ at 460/480 V rated value ■ at 575/600 V rated value Short-circuit protection product function short circuit protection 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 500 V according to IEC 60947-4-1 rated value 100 000 A Installation/ mounting/ dimensions mounting position wouth height ② 265 mm depth 120 mm required spacing ■ for grounded parts ■ for wards ■ at the side ■ downwards ■ 10 mm ■ downwards ■ 10 mm ■ for live parts ■ chowards ■ 10 mm ■ ownwards ■ 10 mm ■ ownwa	.	0.17 hp
For 3-phase AC motor		
at 200/208 V rated value		v.o.ip
- at 220/230 V rated value	·	1 hp
- at 460/480 V rated value		
- at 575/600 V rated value 3 hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic conditional short-circuit current (tq) • at 400 V according to IEC 60947-4-1 rated value 153 000 A • at 590 V according to IEC 60947-4-1 rated value 100 000 A Installation/ mounting/ dimensions mounting position vertical fastening method snap-on fastening on 35 mm DIN rail height 265 mm width 99 mm depth 120 mm required spacing • for grounded parts - forwards 10 mm - backwards 0 mm - upwards 30 mm - at the side 9 mm • for live parts - forwards 10 mm • for live parts - forwards 10 mm - at the side 9 mm - downwards 10 mm - backwards 0 mm - backwards 10 mm - backwards 10 mm - backwards 10 mm - forlive parts - forwards 10 mm - forwards 10 mm - backwards 10		·
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- backwards - upwards 30 mm - downwards - at the side Connections/ Terminals type of electrical connection for main current circuit stranded connectable conductor cross-sections for main contacts stranded 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 1 mm 30 mm 9 mm contact screw-type terminals 1 10 mm², 2x (2.5 6 mm²) 1 6 mm² 1 6 mm²	·	
 upwards downwards at the side 9 mm Connections/ Terminals type of electrical connection for main current circuit 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 Safety related data B10 value with high demand rate according to SN 31920 1 000 000		
- downwards - at the side 9 mm Connections/ Terminals type of electrical connection for main current circuit stranded connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 mm 9 mm 1 10 mm², 2x (2.5 6 mm²) 1 6 mm² 1 6 mm² 1 6 mm²		
— 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 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 1 000 000	•	
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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 B10 value with high demand rate according to SN 31920 1 10 mm², 2x (2.5 6 mm²) 1 6 mm² 1 6 mm² 1 6 mm²	Connections/ Terminals	
stranded 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 1 6 mm² 1 6 mm² 1 6 mm² 1 6 mm²	type of electrical connection for main current circuit	screw-type terminals
stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 1 000 000	stranded	
B10 value with high demand rate according to SN 31920 1 000 000	stranded with core end processing	1 6 mm²
·	Safety related data	
proportion of dangerous failures with high demand rate 73 %		
	B10 value with high demand rate according to SN 31920	1 000 000

according to SN 31920

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

IP20

finger-safe, for vertical contact from the front

Certificates/ approvals

General Product Approval

For use in hazardous locations

Declaration of Conformity

Confirmation











Test Certificates

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping

W.



Confirmation

other

Vibration and Shock

Railway

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/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2220-1FB24-0AP6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-1FB24-0AP6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1FB24-0AP6

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

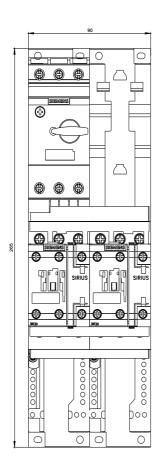
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-1FB24-0AP6&lang=en

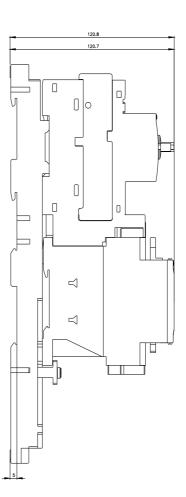
Characteristic: Tripping characteristics, I2t, Let-through current

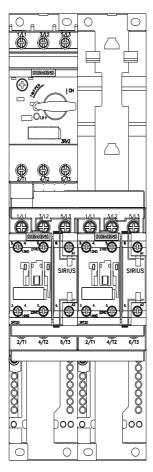
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1FB24-0AP6/char

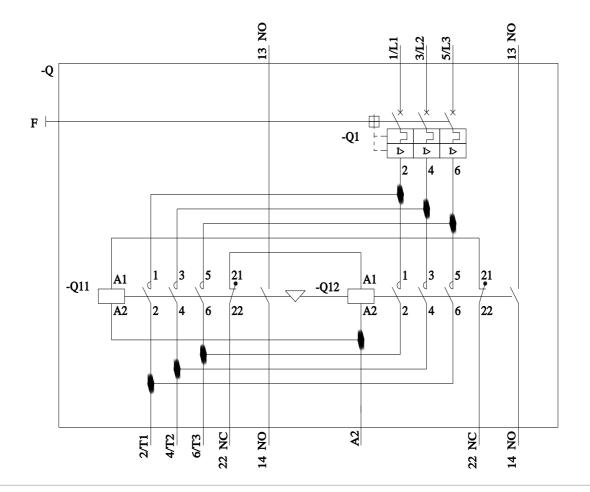
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-1FB24-0AP6&objecttype=14&gridview=view1









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3RA22201FB240AP6