Data sheet

3RA2220-1GB24-0BB4



Load feeder fuseless, Reversing duty 400 V AC, Size S0 4.50...6.30 A 24 V DC screw terminal for installation on standard mounting rail with standard mounting rail adapter (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

product brand name	SIRIUS		
product designation	Reversing starter		
design of the product	for standard rail or screw mounting		
product type designation	3RA22		
manufacturer's article number			
 of the supplied contactor 	<u>3RT2024-1BB40</u>		
 of the supplied circuit-breakers 	3RV2011-1GA10		
 of the supplied RH assembly kit 	3RA2923-1BB1		
 of the supplied link module 	3RA2921-1BA00		
 of the supplied standard mounting rail adapter 	3RA2922-1AA00		
General technical data			
size of the circuit-breaker	S00		
size of load feeder	S0		
power loss [W] for rated value of the current			
 at AC in hot operating state per pole 	2.7 W		
without load current share typical	5.9 W		
insulation voltage with degree of pollution 3 at AC rated value	690 V		
surge voltage resistance rated value	6 kV		
degree of protection NEMA rating	other		
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		
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD		
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001		
reference code according to IEC 81346-2:2019	Q		
Substance Prohibitance (Date)	10/01/2009		
Ambient conditions			
ambient temperature			
 during operation 	-20 +60 °C		
during storage	-50 +80 °C		
during transport	-50 +80 °C		
temperature compensation	-20 +60 °C		
relative humidity during operation	10 95 %		
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	4.5 6.3 A		
operating voltage			
• rated value	690 V		

* AI AC-3 ratic value maximum * AI AC-3 ratic value maximum * AI AC-3 ratic value maximum * AI AC-3 at 400 V rated value * AI AC-3 at 400 V				
Operational current		690 V		
Content				
* at AC-3 at 400 V rated value		50 60 Hz		
• at AC-9 at 400 V rated value	-			
operating power * A AC-3 — at 400 V rated value * 10 AC-30 — at 400 V rated value 2 200 kW Control circuit Control Type of Voltage of the control supply voltage control supply voltage at DC * rated value * value value * value * value value *	 at AC-3 at 400 V rated value 	6.3 A		
* at AC-3	at AC-3e at 400 V rated value	6.3 A		
	operating power			
- at 400 V rated value 2 200 kW Control circuit Control Type of voltage of the control supply voltage 0 C - rated value 24 V - rated value 24 24 V holding power of magnet coil at DC Auxiliary circuit product extension auxiliary switch Yes Protective and monitoring functions trip class CLASS 10 design of the overload release them of the control supply circuit with th	• at AC-3			
	— at 400 V rated value	2 200 W		
Central circuit Central Type of voltage of the control supply voltage or a voltage of the control supply voltage or a voltage at DC or a rated value or a voltage at DC design of the overload release response voltage current of instantaneous short-circuit rip unit DUCSA ratings Tull-oad current (FLA) for 3-phase AC motor or at 400 V rated value or at 600 V rated value or at 600 V rated value or at 101/20 V rated value or at 101/20 V rated value or at 200 V rated value	• at AC-3e			
Type of voltage of the control supply voltage DC	— at 400 V rated value	2 200 kW		
Control supply voltage at DC	Control circuit/ Control			
• rated value 24 \ 24 \ 24 \ 24 \ 24 \ 24 \ 24 \ 24	type of voltage of the control supply voltage	DC		
e rated value	control supply voltage at DC			
holding power of magnet coil at DC Auxiliary sizenti Product extension auxiliary switch Yes Protective and monitoring functions trip class design of the overload release response value current of instantaneous short-circuit trip unit ULCSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 480 V rated value • at 480 V rated value • for shigh-phase AC motor — at 110/120 V rated value • of 3-3 A • at 110/120 V rated value • of 3-3 Phase AC motor — at 200/208 V rated value • of 3-3 Phase AC motor — at 200/208 V rated value • of 3-3 Phase AC motor — at 200/208 V rated value • of 3-3 Phase AC motor — at 200/208 V rated value • of 3-3 Phase AC motor — at 200/208 V rated value • of 3-3 Phase AC motor — at 200/208 V rated value • of 3-3 Phase AC motor — at 60/408 O rated value — at 67/5/600 V rated value — at 67/5/600 V rated value — at 67/5/600 V rated value 5 hp Short-circuit protection product function short circuit grotection yes design of the short-circuit current (q) • at 400 V according to IEC 60947-4-1 rated value fastoning method height vertical fastoning method hoight vertical fastoning method hoight vertical fastoning method hoight 90 mm required spacing • for grounded parts — forwards — at the side 10 mm - downwards • for live parts — forwards — at the side 10 mm • for live parts — forwards — backwards — upwards — backwards — ownwards • omm - downwards • omm - downwards • omm - downwards — ownwards	• rated value	24 V		
Auxiliary circuit product extension auxiliary switch Protective and monitoring functions trip class design of the overload release response value current of instantaneous short-circuit trip unit ULOSA ratings full-load current (FLA) for 3-phase AC motor at 48 00 V rated value at 60.3 A stations full-load current (FLA) for 3-phase AC motor at 100 V rated value be for single-phase AC motor at 100 V rated value be for 3-phase AC motor at 200/230 V rated value be for 3-phase AC motor at 200/230 V rated value be for 3-phase AC motor at 200/230 V rated value be for 3-phase AC motor at 200/230 V rated value be for 3-phase AC motor at 200/230 V rated value be for 3-phase AC motor at 200/230 V rated value be for 3-phase AC motor at 200/230 V rated value be for 3-phase AC motor at 200/230 V rated value be for 3-phase AC motor at 200/230 V rated value be for 3-phase AC motor at 200/230 V rated value be for 3-phase AC motor at 200/230 V rated value be for 3-phase AC motor at 200/230 V rated value be for 3-phase AC motor at 200/230 V rated value be for 3-phase AC motor at 400 Vaccording to rated value be for single-phase AC motor yes design of the short-circuit grotection yes design of the short-circuit current (q) be at 400 V according to IEC 60047-4-1 rated value required short-circuit current (q) be at 400 V according to IEC 60047-4-1 rated value be for grounding dimensions mounting position vertical mounting position fastening method beight yerical spacing be for grounded parts for grou	rated value	24 24 V		
product extension auxiliary switch Protective and monitoring functions trip class design of the overload release response value current of instantaneous short-circuit trip unit UICISA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • for 3-phase AC motor — at 1101/20 V rated value • for 3-phase AC motor — at 1101/20 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 460/480 V rated value • for 3-phase AC motor — at 460/480 V rated value • 5 hp — at 275/600 V rated value • 5 hp Short-circuit protection product function short-circuit protection yes design of the short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/mounting/dimensions mounting position fastening method • On adapter for screw and snap-on mounting on 35 mm DIN rail height width 90 mm depth depth 130 mm required spacing • for grounded paris — forwards — backwards — on mm — of live parts — of wards — at the side — 10 mm — downwards — 10 mm — odwnwards — of live parts — forwards — at the side — odwnwards — to mm — odwnwards — of mm — odwnwards — of mm — odwnwards — of mw — odwnwards — of mw 10 mm — odwnwards — odwnwards — odwnwards — odwnwards — of mw 10 mm — odwnwards — odwnwards — odwnwards — odwnwards — of mw 10 mm — odwnwards — odwn	holding power of magnet coil at DC	5.9 W		
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design of the overload release response value current of instantaneous short-circuit trip unit ### AULICSA ratings full-load current (FLA) for 3-phase AC motor ### at 480 V rated value ### at 230 V rated value ### at 220/230 V rated value ### at 220/230 V rated value ### at 220/230 V rated value ### at 280/230 V rated value ### at 575/600 V rated value ### at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### book at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### at 400 V according to EC 60947-4-1 rated value ### at 55 V according to EC 60947-4-1 rated value ### at 55 V according to EC 60947-4-1 rated value ### at 55 V according to EC 60947-4-1 rated value ### at 55 V according to EC 60947-4-1 rated value ### at 55 V according to EC 60947-4-1 rated value ### according to EC 60947-4-1 rated value ### according to EC 6094		CLASS 10		
Tesponse value current of instantaneous short-circuit trip unit	·			
full-load current (FLA) for 3-phase AC motor e. at 480 V rated value 6.3 A e. at 600 V rated value 6.3 A yielded mechanical performance [hp] for single-phase AC motor — at 1101/20 V rated value 0.25 hp — at 230 V rated value 0.75 hp • for 3-phase AC motor 2 hp — at 200/208 V rated value 2 hp — at 460/480 V rated value 5 hp — at 75/5600 V rated value 5 hp — at 75/5600 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 150 000 A Installation/mounting/dimensions wertical mounting position vertical fastening method On adapter for screw and snap-on mounting on 35 mm DIN rail depth 130 mm required spacing • for grounded parts — forwards 32 mm — backwards 0 mm — d ownwards 10 mm • for live parts - forwards				
Tull-load current (FLA) for 3-phase AC motor * at 480 V rated value				
■ at 480 V rated value ■ at 600 V rated value ■ consingle-phase AC motor ■ at 110/120 V rated value ■ at 230 V rated value ■ at 220/230 V rated value ■ at 220/230 V rated value ■ at 250/230 V rated value ■ at 460/480 V rated value ■ at 460/480 V rated value ■ at 575/600 V rated value ■ at 575/600 V rated value ■ at 575/600 V rated value ■ bont-circuit protection ▼es design of the short-circuit trip magnetic conditional short-circuit current (tq) ■ at 400 V according to IEC 60947-4-1 rated value 150 000 A Installation mounting/ dimensions mounting position vertical fastening method 0 nadapter for screw and snap-on mounting on 35 mm DIN rail height vidth depth 130 mm required spacing • for grounded parts — forwards — at the side — upwards — at the side — downwards 0 mm - at the side — downwards 0 mm - pupwards 0 mm - quownwards				
■ at 600 V rated value 9		63 /		
vielded mechanical performance [hp]				
• for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 220/230 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 675/600 V rated value — 5 hp — at 757/600 V rated value — 5 hp Short-circuit protection product function short circuit trotp conditional short-circuit trip — at 400 V according to IEC 60947-4-1 rated value 150 000 A Installation/ mounting/ dimensions mounting position fastening method On adapter for screw and snap-on mounting on 35 mm DIN rail height 265 mm width 90 mm depth 130 mm required spacing • for grounded parts — forwards — backwards — upwards — of onwards — o		0.3 A		
- at 110/120 V rated value				
- at 230 V rated value 0.75 hp • for 3-phase AC motor - at 200/208 V rated value 2 hp - at 220/230 V rated value 5 hp - at 460/480 V rated value 5 hp - at 4575/600 V rated value 5 hp - at 575/600 V rated value 5 hp Short-circuit protection		0.051		
• for 3-phase AC motor — at 200/208 V rated value 2 hp — at 220/230 V rated value 5 hp — at 460/480 V rated value 5 hp — at 460/480 V rated value 5 hp Short-circuit protection product function 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 150 000 A Installation/ mounting/ dimensions mounting position vertical fastening method On adapter for screw and snap-on mounting on 35 mm DIN rail height 265 mm width 90 mm depth 130 mm required spacing • for grounded parts — forwards 32 mm — to backwards — upwards — at the side 10 mm • for live parts — forwards 32 mm — downwards 10 mm • for live parts — forwards 32 mm — downwards 50 mm • for live parts — forwards 32 mm — downwards 50 mm • for live parts — forwards 32 mm — downwards 50 mm • for live parts — forwards 32 mm — downwards 50 mm • for live parts — forwards 32 mm — downwards 50 mm — to powards 50 mm — to powards 50 mm — downwards 50 mm				
at 200/208 V rated value		0.75 hp		
- at 220/230 V rated value 2 hp - at 460/480 V rated value 5 hp - at 4575/600 V rated value 5 hp Short-circuit protection product function short circuit protection 4 esign of the short-circuit trip 5 magnetic conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value 150 000 A Installation/ mounting/ dimensions mounting position 4 vertical fastening method 5 on adapter for screw and snap-on mounting on 35 mm DIN rail height 90 mm depth 130 mm required spacing • for grounded parts - forwards 32 mm - upwards 50 mm - at the side 10 mm - downwards 10 mm • for live parts - forwards 32 mm - backwards 0 mm - downwards 10 mm • for live parts - forwards 32 mm - backwards 0 mm - upwards 50 mm - downwards 50 mm - downwards 50 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - backwards 50 mm - backwards 50 mm - backwards 50 mm - backwards 0 mm	·			
- at 460/480 V rated value 5 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit current (lq) • at 400 V according to IEC 60947-4-1 rated value 150 000 A Installation/ mounting/ dimensions mounting position vertical fastening method On adapter for screw and snap-on mounting on 35 mm DIN rail height 265 mm width 90 mm depth 130 mm required spacing • for grounded parts — backwards — upwards — at the side — downwards • for live parts — forwards • for live parts — forwards • for live parts — forwards — backwards — upwards — downwards • for live parts — forwards — backwards — backwards — backwards — omm • for live parts — forwards — backwards — backwards — backwards — omm • for live parts — forwards — backwards — backwards — backwards — backwards — backwards — backwards — forwards — backwards				
Short-circuit protection product function short circuit protection design of the short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height vertical fastening method on adapter for screw and snap-on mounting on 35 mm DIN rail height vertical fastening method 130 mm required spacing • for grounded parts — forwards — upwards — at the side — odwnwards • for live parts — forwards • for live parts — forwards — backwards — obackwards — omm • for live parts — forwards — backwards — backwards — backwards — omm • for live parts — forwards — backwards — backwards — backwards — omm • for live parts — forwards — backwards — backwards — backwards — backwards — omm — upwards — backwards — backwards — backwards — backwards — omm — upwards — backwards — omm — upwards — backwards — backwards — omm — upwards — omm —		2 hp		
Short-circuit protection Yes				
product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq)		5 hp		
design of the short-circuit trip magnetic conditional short-circuit current (Iq) 150 000 A • at 400 V according to IEC 60947-4-1 rated value 150 000 A Installation/ mounting/ dimensions vertical mounting position vertical fastening method On adapter for screw and snap-on mounting on 35 mm DIN rail height 265 mm width 90 mm depth 130 mm required spacing • for grounded parts — forwards 32 mm — backwards 0 mm — upwards 50 mm — at the side 10 mm — downwards 10 mm • for live parts 32 mm — backwards 0 mm — backwards 0 mm — backwards 0 mm — upwards 50 mm — upwards 50 mm — downwards 10 mm	Short-circuit protection			
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* at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method On adapter for screw and snap-on mounting on 35 mm DIN rail height 265 mm width 90 mm depth 130 mm required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — o mm • for live parts — forwards — backwards — backwards — backwards — downwards • for live parts — forwards — backwards — backwards — backwards — backwards — backwards — backwards — to mm • for live parts — forwards — backwards — backwards — backwards — to mm - downwards — backwards — downwards	design of the short-circuit trip	magnetic		
Installation/ mounting/ dimensions mounting position vertical fastening method On adapter for screw and snap-on mounting on 35 mm DIN rail height 265 mm width 90 mm depth 130 mm required spacing • for grounded parts — forwards 32 mm — backwards 0 mm — at the side 10 mm — downwards 10 mm • for live parts — forwards 32 mm — backwards 0 mm — upwards 50 mm — upwards 50 mm — downwards 10 mm	conditional short-circuit current (Iq)			
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fastening method height 265 mm width 90 mm depth 130 mm required spacing • for grounded parts — forwards — backwards — at the side — downwards • for live parts — forwards — backwards — backwards — backwards — to mm — downwards — to mm — downwards — backwards — backwards — to mm — downwards — to mm —	Installation/ mounting/ dimensions			
fastening method On adapter for screw and snap-on mounting on 35 mm DIN rail height 265 mm width 90 mm depth 130 mm required spacing • for grounded parts 32 mm — backwards 0 mm — upwards 50 mm — at the side 10 mm — downwards 10 mm • for live parts 32 mm — backwards 0 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm	mounting position	vertical		
height 265 mm width 90 mm depth 130 mm required spacing • for grounded parts ● for grounded parts 32 mm — backwards 0 mm — upwards 50 mm — at the side 10 mm — downwards 10 mm ● for live parts 32 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm		On adapter for screw and snap-on mounting on 35 mm DIN rail		
depth 130 mm required spacing • for grounded parts — forwards 32 mm — backwards 0 mm — upwards 50 mm — at the side 10 mm — downwards 10 mm • for live parts 32 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm		265 mm		
depth 130 mm required spacing • for grounded parts — forwards 32 mm — backwards 0 mm — upwards 50 mm — at the side 10 mm — downwards 10 mm • for live parts 32 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm		90 mm		
required spacing	depth	130 mm		
 for grounded parts — forwards — backwards — upwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — upwards — upwards — upwards — upwards — downwards — live parts — backwards — backwards — upwards — upwards — downwards — live parts — live parts	<u> </u>			
— forwards 32 mm — backwards 0 mm — upwards 50 mm — at the side 10 mm — downwards 10 mm • for live parts 32 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm				
— backwards 0 mm — upwards 50 mm — at the side 10 mm — downwards 10 mm • for live parts 32 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm		32 mm		
— upwards 50 mm — at the side 10 mm — downwards 10 mm • for live parts 32 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm				
— at the side 10 mm — downwards 10 mm ● for live parts 32 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm				
— downwards 10 mm ● for live parts 32 mm — forwards 32 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm	·			
 for live parts — forwards — backwards — upwards — downwards 10 mm 				
— forwards 32 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm				
— backwards 0 mm — upwards 50 mm — downwards 10 mm	·	32 mm		
upwardsdownwards50 mm10 mm				
— downwards 10 mm				
	•			
— at the side				
	— at the side	10 111111		

Connections/ Terminals					
type of electrical connection					
for main current circuit	screw	screw-type terminals			
 for auxiliary and control circuit 	screw	screw-type terminals			
Safety related data					
B10 value with high demand rate according to SN 31920	1 000	1 000 000			
proportion of dangerous failures					
with high demand rate according to SN 31920	73 %	73 %			
touch protection on the front according to IEC 60529	finger	finger-safe, for vertical contact from the front			
Communication/ Protocol					
protocol is supported					
 PROFINET IO protocol 	No	No			
PROFIsafe protocol	No	No			
protocol is supported AS-Interface protocol	No	No			
Certificates/ approvals					
General Product Approval		For use in hazard-	Declaration of Conformity		

Confirmation







ous locations





Test Certificates

Marine / Shipping

Type Test Certificates/Test Report Special Test Certificate









Marine / Shipping





Confirmation

other

Vibration and Shock

Railway

Transport Information

Dangerous Good

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=3RA2220-1GB24-0BB4

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2220-1GB24-0BB4}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1GB24-0BB4

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

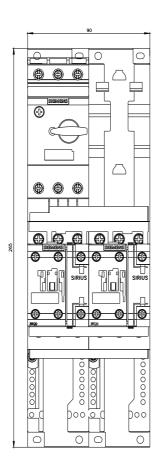
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-1GB24-0BB4&lang=en

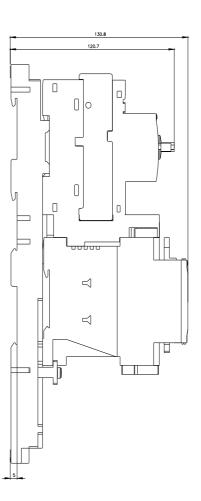
Characteristic: Tripping characteristics, I2t, Let-through current

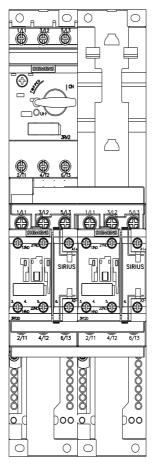
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1GB24-0BB4/char

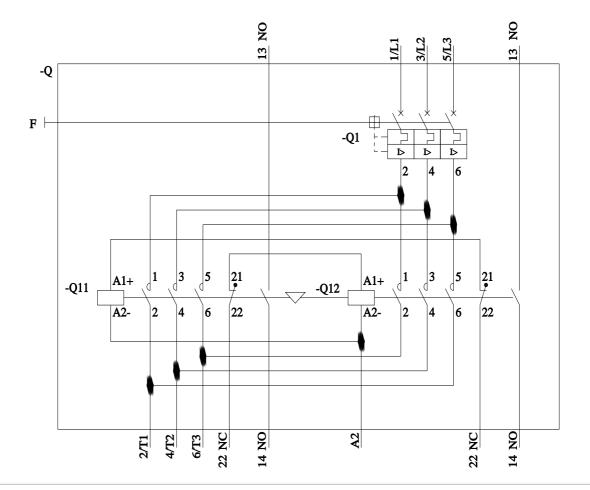
Further characteristics (e.g. electrical endurance, switching frequency)

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RA2220-1GB24-0BB4\&objecttype=14\&gridview=view1}$









last modified: 4/18/2023 🖸