SIEMENS

Data sheet

3RA2150-4UA35-0NB3



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S2 32...40 A 20 ... 33 V AC/DC screw terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor) with circuit (integrated)

size of the circuit-breaker S2 size of load feeder S2 power loss [W] for rated value of the current s2 • at AC in hot operating state per pole 8.9 W • without load current share typical 2 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 64 V 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) 03/01/2017 unblent conditions -20 +60 °C • during operation -20 +60 °C • during transport -50 +80 °C • during transport -50 +80 °C • during transport -20 +60 °C • during transport -20 +60 °C					
design of the product for standard rail or screw mounting product type designation GRA21 manufacturer's article number GRA21 • of the supplied contactor SR12035-1NB30 • of the supplied inclutbreakers GRA2032-1/LA00 Star of the circuit-breaker S2 size of the circuit-breaker S2 power loss [W] for rated value of the current 89 W • ulthout load current share typical 2 W • ulthout load current share typical 890 V surge roltage with degree of pollution 3 at AC rated value 690 V degree of protection NEMA rating other shock resistance according to EEC 60068-2-27 6g/ 11 ms mechanical service life (operating cycles) of contactor typical 10 000 000 type of protection according to ATEX directive 2014/34/EU DMT 02 ATEX F 001 tefference code according to EE 81346-2:2019 Q Substance Prohibitance (Date) 0301/2017 uning operation -20+60 °C • during storage -50+80 °C • during transport -50 °C • during storage value cu	product brand name	SIRIUS			
product type designation 3RA21 manufacturer's article number SRT2035-1NB30 • of the supplied contactor SRT2035-1NB30 • of the supplied circuit-breakers SRX2032-4UA10 • of the supplied link module SRA2031-1AA00 • Stace of the circuit-breaker S2 size of to circuit-breaker S2 size of to circuit-breaker S2 ower loss (W) for rated value of the current 8.9 W • at A C in hot operating state per pole 8.9 W • without load current share typical 2 W insulation voltage with degree of pollution 3 at AC rated value 680 V degree of protection NEMA rating other shock resistance according to IEC 60068-2.27 69 / 11 ms mechanical service life (operating cycles) of contactor typical 10 000 000 type of protection according to ATEX directive 2014/34/EU EXII (2) CD certificate of suitability according to ATEX directive 2014/34/EU EXII (2) CD certificate of suitability according to ATEX directive 2014/34/EU EXII (2) CD subent conditions 20460 °C - during transport -20460 °C - during transport -20460 °C - during transport -20460 °C - during transport -20	product designation	Direct (on-line) starter			
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• of the supplied contactorSRT2035-1NB30• of the supplied incuit-breakersSRX2032-4UA10• of the supplied ink moduleSRX2031-1AA00• othe supplied ink moduleSRX2031-1AA00• othe supplied ink moduleSRX2031-1AA00• stace of the circuit-breakerS2size of the circuit-breakerS2• at AC in hot operating state per pole8.9 W• without load current share typical2 W• without load current share typical680 V• surge voltage resistance rated value610 Vsurge or otage resistance rated value610 V• degree of protection REMA rating0ther• shock resistance according to IEC 60068-2-2769 (11 msmechanical service life (operating cycles) of contactor typical10 000 000type of assignment2• type of protection according to ATEX directive 2014/34/EUEX II (2) GDretificate of suitability according to ATEX directive 2014/34/EUDMT 02 ATEX F 001• type of protection according to ATEX directive 2014/34/EUDMT 02 ATEX F 001• type of assignment20	product type designation	3RA21			
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• of the supplied link moduleBRA2831-1AA00concret technical data52size of te circuit-breaker52size of ted feeder52• at AC in hot operating state per pole8.9 W• without load current share typical2 Winsulation voltage with degree of pollution 3 at AC rated value680 Vsurge voltage resistance rated value680 Vsurge voltage resistance rated value64 Vdegree of protection NEMA ratingothershock resistance according to IEC 60068-2-276g /11 msmechanical service life (operating cycles) of contactor typical1000 000type of assignment2type of protection according to ATEX directive 2014/34/EUEXII (2) GDcertificate of suitability according to IEC 81346-2:2019QGuing operation-20+60 °C• during storage-50+60 °C• during storage-50+60 °C• during operation-20+60 °C• during operation-20+60 °C• during transport-50+60 °C• during operation-20+60 °C• during operation-20+60 °C• during operation-50+60 °C• during operation-20+60 °C• during transport-30+6	 of the supplied contactor 	<u>3RT2035-1NB30</u>			
Seneral technical data size of the circuit-breaker S2 size of load feeder S2 power loss [W] for rated value of the current s12 of load feeder • at AC in hot operating state per pole 8.9 W • without load current share typical 2 W insulation voltage with degree of pollution 3 at AC rated value 600 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 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) 03/01/2017 winding gorage -50 +60 °C • during operation -20 +60 °C • during operation -20 +60 °C • during operation 10 95 % tain current 3 design of the switching contact electromechanical	 of the supplied circuit-breakers 	<u>3RV2032-4UA10</u>			
size of the circuit-breaker S2 size of load feeder S2 power loss [W] for rated value of the current	 of the supplied link module 	<u>3RA2931-1AA00</u>			
size of load feeder S2 power loss [W] for rated value of the current	General technical data				
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surge voltage resistance rated value 6 KV degree of protection NEMA rating other character according to IEC 60068-2-27 6 g/ 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 Ext (2) GD certificat of suitability according to ATEX directive 2014/34/EU Ext (2) GD certificat of suitability according to ATEX directive 2014/34/EU Substance Prohibitance (Date) 03/01/2017 tmblent conditions meblent temperature	 without load current share typical 	2 W			
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shock resistance according to IEC 60068-2-276g / 11 msmechanical service life (operating cycles) of contactor typical10 000 000type of assignment2type of protection according to ATEX directive 2014/34/EUEX II (2) GDcertificate of suitability according to ATEX directive 2014/34/EUDMT 02 ATEX F 001reference code according to IEC 81346-2:2019QSubstance Prohibitance (Date)03/01/2017mblent conditions-20 +60 °C• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °Ctemperature compensation-20 +60 °C• during transport-20 +60 °Crelative humidity during operation0 95 %fain circuit3adjustable current response value current of the current- degendent overload release32 40 Aoperating voltage690 V• at AC-3 rated value maximum690 V	surge voltage resistance rated value	6 kV			
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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) 03/01/2017 unbient conditions	type of assignment	2			
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ambient conditions ambient temperature • during operation • during storage • during storage • during transport • du	reference code according to IEC 81346-2:2019	Q			
ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C • during operation -20 +60 °C temperature compensation -20 +60 °C relative humidity during operation 10 95 % Alain circuit 3 mumber of poles for main current circuit 3 design of the switching contact electromechanical adjustable current response value current of the current- dependent overload release 32 40 A operating voltage • rated value 690 V • at AC-3 rated value maximum 690 V	Substance Prohibitance (Date)	03/01/2017			
• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °Ctemperature compensation-20 +60 °Crelative humidity during operation10 95 %tain circuit10 95 %tumber of poles for main current circuit3design of the switching contactelectromechanicaladjustable current response value current of the current- dependent overload release32 40 Aoperating voltage690 V• rated value690 V• at AC-3 rated value maximum690 V	Ambient conditions				
• during storage-50 +80 °C• during transport-50 +80 °C• temperature compensation-20 +60 °Crelative humidity during operation10 95 %Aain circuit3design of the switching contactelectromechanicaladjustable current response value current of the current- dependent overload release32 40 Aoperating voltage • rated value • at AC-3 rated value maximum690 V	ambient temperature				
• during transport-50 +80 °Ctemperature compensation-20 +60 °Crelative humidity during operation10 95 %Aain circuit3design of the switching contactelectromechanicaladjustable current response value current of the current- dependent overload release32 40 Aoperating voltage • rated value • at AC-3 rated value maximum690 V	during operation	-20 +60 °C			
temperature compensation -20 +60 °C relative humidity during operation 10 95 % Alain circuit 3 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 32 40 A operating voltage 690 V • rated value 690 V • at AC-3 rated value maximum 690 V	 during storage 	-50 +80 °C			
relative humidity during operation 10 95 % Aain circuit 3 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 32 40 A operating voltage rated value at AC-3 rated value maximum 690 V 69	during transport	-50 +80 °C			
Aain circuit 3 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 32 40 A operating voltage 690 V • rated value 690 V • at AC-3 rated value maximum 690 V	temperature compensation	-20 +60 °C			
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 32 40 A operating voltage • rated value • rated value 690 V • at AC-3 rated value maximum 690 V	relative humidity during operation	10 95 %			
design of the switching contact electromechanical adjustable current response value current of the current- dependent overload release 32 40 A operating voltage rated value 690 V 690 V 	Main circuit				
adjustable current response value current of the current- dependent overload release 32 40 A operating voltage 690 V • rated value 690 V • at AC-3 rated value maximum 690 V	number of poles for main current circuit	3			
dependent overload release operating voltage 690 V • at AC-3 rated value maximum 690 V	design of the switching contact	electromechanical			
rated value at AC-3 rated value maximum 690 V		32 40 A			
• at AC-3 rated value maximum 690 V	operating voltage				
	rated value	690 V			
• at AC-3e rated value maximum 690 V	 at AC-3 rated value maximum 	690 V			
	• at AC-3e rated value maximum	690 V			

	50 0011-
operating frequency rated value	50 60 Hz
operational current	40.4
• at AC-3 at 400 V rated value	40 A
at AC-3e at 400 V rated value	40 A
operating power	
• at AC-3	
— at 400 V rated value	18 500 W
• at AC-3e	
— at 400 V rated value	18 500 kW
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	24 V
• at 50 Hz rated value	20 33 V
• at 60 Hz rated value	24 V
at 60 Hz rated value	20 33 V
control supply voltage at DC	
rated value	24 V
rated value	20 33 V
apparent holding power of magnet coil at AC	2 VA
• at 50 Hz	2 VA
• at 60 Hz	2 VA
inductive power factor with the holding power of the coil	1
holding power of magnet coil at DC	1 W
Auxiliary circuit	
product extension auxiliary switch	Yes
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	585 A
UL/CSA ratings	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor	
	40 A
full-load current (FLA) for 3-phase AC motor	40 A 40 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	
 full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection	40 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection	40 A Yes
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip	40 A Yes
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq)	40 A Yes magnetic
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions	40 A Yes magnetic
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value	40 A Yes magnetic 150 000 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (lq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position	40 A Yes magnetic 150 000 A vertical, horizontal
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method	40 A Yes magnetic 150 000 A vertical, horizontal screw and snap-on mounting to two 35 mm DIN rails
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height	40 A Yes magnetic 150 000 A vertical, horizontal screw and snap-on mounting to two 35 mm DIN rails 274 mm
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width	40 A Yes magnetic 150 000 A vertical, horizontal screw and snap-on mounting to two 35 mm DIN rails 274 mm 55 mm
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	40 A Yes magnetic 150 000 A vertical, horizontal screw and snap-on mounting to two 35 mm DIN rails 274 mm 55 mm
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (lq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	40 A Yes magnetic 150 000 A vertical, horizontal screw and snap-on mounting to two 35 mm DIN rails 274 mm 55 mm
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts	40 A Yes magnetic 150 000 A vertical, horizontal screw and snap-on mounting to two 35 mm DIN rails 274 mm 55 mm 150 mm
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (lq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards	40 A Yes magnetic 150 000 A vertical, horizontal screw and snap-on mounting to two 35 mm DIN rails 274 mm 55 mm 150 mm 32 mm
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards	40 A Yes magnetic 150 000 A vertical, horizontal screw and snap-on mounting to two 35 mm DIN rails 274 mm 55 mm 150 mm 32 mm 0 mm
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (lq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards	40 A Yes magnetic 150 000 A vertical, horizontal screw and snap-on mounting to two 35 mm DIN rails 274 mm 55 mm 150 mm 32 mm 0 mm 50 mm
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — upwards — at the side — downwards	40 A Yes magnetic 150 000 A vertical, horizontal screw and snap-on mounting to two 35 mm DIN rails 274 mm 55 mm 150 mm 32 mm 0 mm 50 mm 10 mm
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — upwards — at the side — downwards • for live parts	40 A Yes magnetic 150 000 A vertical, horizontal screw and snap-on mounting to two 35 mm DIN rails 274 mm 55 mm 150 mm 32 mm 0 mm 50 mm 10 mm 10 mm
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (lq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards	40 A Yes magnetic 150 000 A vertical, horizontal screw and snap-on mounting to two 35 mm DIN rails 274 mm 55 mm 150 mm 32 mm 0 mm 50 mm 10 mm 10 mm 10 mm 32 mm
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (lq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards	40 A Yes magnetic 150 000 A vertical, horizontal screw and snap-on mounting to two 35 mm DIN rails 274 mm 55 mm 150 mm 32 mm 0 mm 50 mm 10 mm 10 mm 10 mm 32 mm 0 mm
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards	40 A Yes magnetic 150 000 A vertical, horizontal screw and snap-on mounting to two 35 mm DIN rails 274 mm 55 mm 150 mm 32 mm 0 mm 50 mm 10 mm 10 mm 32 mm 0 mm 50 mm 10 mm
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 for main current c 	• for main current circuit		screv	v-type terminals			
 for auxiliary and c 	ontrol circuit		screv	v-type terminals			
Safety related data							
touch protection on the front according to IEC 60529		C 60529	finger-safe, for vertical contact from the front				
Communication/ Protoco	l						
protocol is supported							
 PROFINET IO pro 	otocol		No				
PROFIsafe protoc	ol		No				
protocol is supported AS	S-Interface protocol		No				
Certificates/ approvals							
General Product Appr	oval			For use in hazard- ous locations	Declaration of Confor	mity	
<u>Confirmation</u>		EHC		K ATEX	CE EG-Konf.	UK CA	
Test Certificates		Marine / Shippin	g				
Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS		BUREAU VERITAS	Lloyd's Register	PRS	
Marine / Shipping				other	Railway	Dangerous Good	
RINA	RMRS RMRS			<u>Confirmation</u>	Vibration and Shock	Transport Information	
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 Down	loadcenter (Catalogs, I						

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2150-4UA35-0NB3

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2150-4UA35-0NB3

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

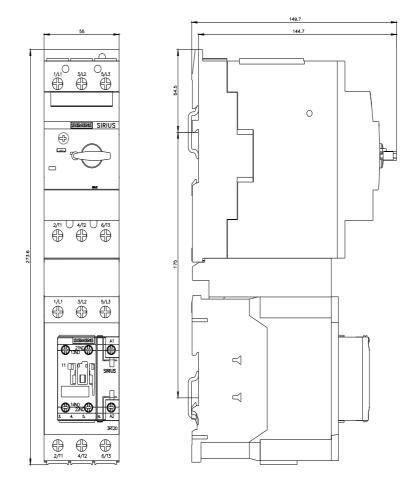
https://support.industry.siemens.com/cs/ww/en/ps/3RA2150-4UA35-0NB3 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

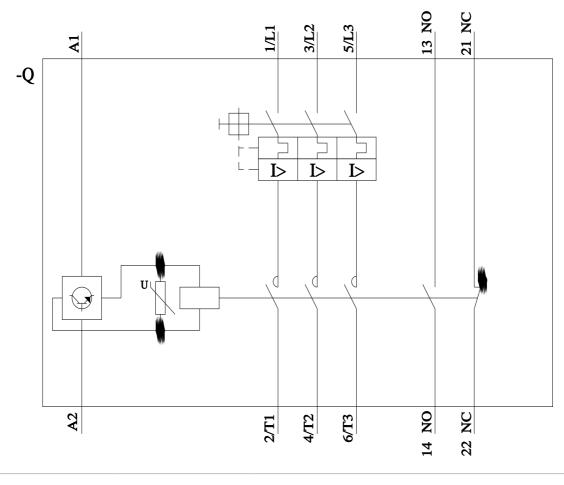
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2150-4UA35-0NB3&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2150-4UA35-0NB3/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2150-4UA35-0NB3&objecttype=14&gridview=view1





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