3RA2130-4XA37-0NB3

Data sheet



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S2 49...59 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 = 100 kA 1 NO+1 NC (contactor) with circuit (integrated)

product brand name	SIRIUS	
product designation	Direct (on-line) starter	
design of the product	for standard rail or screw mounting	
product type designation	3RA21	
manufacturer's article number		
 of the supplied contactor 	3RT2037-1NB30	
 of the supplied circuit-breakers 	3RV2031-4XA10	
 of the supplied link module 	3RA2931-1AA00	
General technical data		
size of the circuit-breaker	S2	
size of load feeder	S2	
power loss [W] for rated value of the current		
 at AC in hot operating state per pole 	12.5 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	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)	03/01/2017	
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	49 59 A	
operating voltage		
rated value	690 V	
 at AC-3 rated value maximum 	690 V	
 at AC-3e rated value maximum 	690 V	

operational current		
at AC-3 at 4 00 V rated value 59 A operating power at AC-3 at 4 00 V rated value 59 A operating power at AC-3 at 4 00 V rated value 50 000 W at AC-3 at 4 00 V rated value 30 000 W operating power at AC-3 at 4 00 V rated value 30 000 W operating power at AC-3 at 4 00 V rated value 30 000 W Outlined circuit/ Control Outlined circi	operating frequency rated value	50 60 Hz
ear AC-3e at 400 V rated value 59 A	•	
	at AC-3e at 400 V rated value	59 A
at 400 V rated value	operating power	
# ait AC-3te	• at AC-3	
	— at 400 V rated value	30 000 W
Control circuit/ Control ACIDC up of voltage of the control supply voltage ACIDC control supply voltage at AC 4 150 Hz rated value a 150 Hz rated value 24 V a 160 Hz rated value 20 33 V a 160 Hz rated value 20 33 V control supply voltage at DC 4 V a 160 Hz rated value 20 33 V a paramet holding power of magnet coil at AC 2 VA a 150 Hz 2 VA a 160 Hz 1 Inductive power factor with the holding power of the coil 1 holding power of magnet coil at DC 1 W Autolitiny circuit Yes Protective and monitoring functions Yes Protective and monitoring functions It p class ftip class CLASS 10 design of the overload release thermal (bimetallic) response value current of instantaneous short-circuit trip unit 845 A DUCSA ratings 5 A full-load current (FLA) for 3-phase AC motor 4 1800 V rated value a 1800 V rated value 55 A Short-circuit protection Yes <tr< td=""><td>• at AC-3e</td><td></td></tr<>	• at AC-3e	
Sype of voltage of the control supply voltage at AC	— at 400 V rated value	30 000 kW
control supply voltage at AC at 50 Hz rated value 24 V 24 V 34 50 Hz rated value 24 V 35 Nz Farted value 26 U	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 80 Hz rated value control supply voltage at DC • rated value • rated value • at atol value • at 50 Hz • at 60 Hz •	at 50 Hz rated value	20 33 V
control supply voltage at DC • rated value • rated value 24 V apparent holding power of magnet coil at AC 2 VA at 50 Hz 2 VA et 60 Hz 1 00 Hz 2 VA et 60 Hz 1 00 Hz 1 00 Hz 1 00 Hz 2 VA 3 VA 3 VA 3 VA 4	at 60 Hz rated value	24 V
• rated value	at 60 Hz rated value	20 33 V
• rated value	control supply voltage at DC	
• rated value 20 33 V apparent holding power of magnet coil at AC 2 VA • at 80 Hz 2 2VA 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 (binetallic) ### ### ### ### ### ### ### ### ### ##		24 V
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• at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz auxiliary oricrut holding power of magnet coil at DC 4 DW Auxiliary oricrut Product extension auxiliary switch Protective and monitoring functions trip class CLASS-10 design of the overload release response value current of instantaneous short-circuit trip unit UICSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • 59 A • at 600 V rated value Storber-circuit protection product function short circuit protection product function short circuit trip conditional short-circuit current (iq) • at 400 V according to IEC 60947-4-1 rated value 100 000 A installation mounting dimensions mounting position vertical, horizontal fastening method fastening method fastening method fastening method fastening method fastening method feight - for grounded parts - forwards - backwards - upwards - of mwards - ownwards - upwards - ownwards - upwards - ownwards		
• at 80 Hz		
Inductive power factor with the holding power of the coil holding power of magnet coil at DC 1 W Auxiliary creut product extension auxiliary switch Protective and monitoring functions trip class design of the overload release tesponse value current of instantaneous short-circuit trip unit UL/GSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 59 A at 800 V rated value 59 A bort-circuit protection Product function short circuit protection Yes conditional short-circuit current (iq) at 400 V according to IEC 80947-4-1 rated value 100 000 A installation/mounting/dimensions mounting position Vertical, horizontal fastening method screw and snap-on mounting to two 35 mm DIN rails height Width 55 mm depth 150 mm required spacing of or grounded parts — backwards — upwards — ownwards —		
holding power of magnet coil at DC Auxiliary circuit product extension auxiliary switch Protective and monitoring functions trip class design of the overload release thermal (bimetallic) response value current of instantaneous short-circuit trip unit B45 A ULCSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 52 A Short-circuit protection product function short circuit protection design of the short-circuit current (fl) at 480 V according to Ecc 60947-4-1 rated value at 640 V according to Ecc 60947-4-1 rated value be at 400 V according to Ecc 60947-4-1 rated value be at 400 V according to Ecc 60947-4-1 rated value conditional short-circuit current (fl) at 400 V according to Ecc 60947-4-1 rated value be at 400 V according to Ecc 60947-4-1 rated value be at 400 V according to Ecc 60947-4-1 rated value conditional short-circuit current (fl) attention mounting dimensions mounting position vertical, horizontal fastening method screw and snap-on mounting to two 35 mm DIN rails height 274 mm width depth for grounded parts - forwards - backwards - upwards - at the side - downwards 10 mm for live parts - forwards - at the side - downwards - upwards - to filve parts - keep and short-circuit current (fla) - at the side - downwards - upwards - downwards - upwards - downwards - downward		
Auxiliary circuit product extension auxiliary switch Protective and monitoring functions trip class CLASS 10 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 600 V rated value • at 600 V rated value • at 600 V rated value solon of the short-circuit trip product function short-circuit trip mordured for the short-circuit trip • at 400 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value solve and snap-on mounting to two 35 mm DIN rails height solve and snap-on mounting to two 35 mm DIN rails height if of grounded parts - for grounded parts - for grounded parts - at the side - downwards - backwards - upwards - boackwards - the side - downwards - boackwards - downwards - to filive parts - for live parts - for live parts - for live parts - boackwards - upwards - downwards - to live parts - forwards - boackwards - upwards - boackwards - upwards - downwards - upwards - downwards - ut the side - downwards - ut the side - downwards - upwards - up		
Product extension auxiliary switch Yes		1 **
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trip class CLASS 10 design of the overload release thermal (bimetallic) response value current of instantaneous short-circuit trip unit 845 A UUCSA ratings full-load current (FLA) for 3-phase AC motor 4 480 V rated value 59 A • at 450 V rated value 59 A *** • at 600 V rated value 52 A Short-circuit protection product function short circuit trip magnetic conditional short-circuit trip magnetic conditional short-circuit trip 100 000 A Installation/ mounting/ dimensions wounting position vertical, horizontal astening method height 274 mm width 55 mm depth 150 mm required spacing • for grounded parts 32 mm — forwards 32 mm — backwards 0 mm — at the side 10 mm • for live parts 50 mm — forwards 32 mm		Tes
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response value current of instantaneous short-circuit trip unit UL/CSA 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 product function short circuit protection product function short circuit protection product function short circuit trip at 400 V according to IEC 60947-4-1 rated value installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting to two 35 mm DIN rails height vidth 55 mm depth required spacing • for grounded parts — forwards — at the side — downwards — at the side — downwards — for live parts — for wards — for live parts — for live parts — forwards — backwards — upwards — backwards — upwards — 50 mm - for live parts — forwards — backwards — upwards — backwards — upwards — 50 mm — to live parts — forwards — 50 mm — to live parts — forwards — backwards — upwards — 50 mm — to live parts — forwards — backwards — upwards — 50 mm — to live parts — forwards — backwards — upwards — 50 mm — to live parts — forwards — backwards — upwards — to low mm — to low m	•	
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 • at 600 V rated value • at 600 V rated value • at 600 V rated value product function short circuit protection required spacing • at 400 V according to IEC 60947-4-1 rated value installation/ mounting/ dimensions mounting position fastening method fastening method fastening method fastening method fastening method for grounded parts • for grounded parts • for grounded parts • at the side - upwards - at the side - downwards • for live parts - forwards • for live parts - forwards - backwards - upwards - backwards - upwards - forwards - forwards - forwards - forwards - downwards - forwards - forwards - forwards - forwards - downwards - forwards - hackwards - downwards - downwa		
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 • at 600 V rated value product function short circuit protection product function short circuit current (lq) • at 400 V according to IEC 60947-4-1 rated value o at 400 V according to IEC 60947-4-1 rated value Installation' mounting/ dimensions mounting position fastening method fastening method fastening method fastening method for grounded parts - forwards - backwards - upwards - at the side - downwards - for live parts - forwards - for live parts - forwards - backwards - backwards - forwards - for live parts - forwards - backwards - forwards - forwards - forwards - for live parts - forwards - forwards - forwards - downwards - forwards - forwar	· · · · · · · · · · · · · · · · · · ·	845 A
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design of the short-circuit trip magnetic conditional short-circuit current (Iq) • at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method fastening method screw and snap-on mounting to two 35 mm DIN rails height vertical, horizontal fastening method screw and snap-on mounting to two 35 mm DIN rails height 274 mm width 55 mm depth required spacing • for grounded parts — forwards — backwards — backwards — at the side — downwards • for live parts — forwards — backwards — backwards — backwards — o mm • for live parts — forwards — backwards — live parts — forwards — backwards — backwards — backwards — backwards — live parts — forwards — backwards — backwards — backwards — backwards — backwards — backwards — live parts — forwards — backwards — backwards — backwards — backwards — backwards — backwards — live parts — forwards — backwards — live parts — forwards — live parts — forwards — live parts — forwards — live parts —	Short-circuit protection	
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height 274 mm width 55 mm depth 150 mm required spacing	mounting position	vertical, horizontal
height 274 mm width 55 mm depth 150 mm required spacing		screw and snap-on mounting to two 35 mm DIN rails
width 55 mm depth 150 mm required spacing For grounded parts ● for grounded parts 32 mm — forwards 0 mm — backwards 0 mm — upwards 10 mm — at the side 10 mm ● for live parts 32 mm — backwards 0 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm — at the side 10 mm Connections/ Terminals		274 mm
depth 150 mm required spacing ● for grounded parts 32 mm — forwards 0 mm — backwards 50 mm — at the side 10 mm — downwards 10 mm ● for live parts 32 mm — forwards 32 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm — at the side 10 mm Connections/ Terminals	•	55 mm
required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards — for live parts — forwards — backwards — upwards — of mm • for live parts — forwards — backwards — upwards — upwards — upwards — 10 mm — to mm — upwards — upwards — upwards — upwards — upwards — downwards — to mm		150 mm
for grounded parts — forwards — backwards — upwards — upwards — at the side — downwards — for live parts — forwards — backwards — upwards — backwards — upwards — upwards — at the side — downwards — upwards — at the side — downwards — at the side — at the side — to mm Connections/ Terminals	•	
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— upwards 50 mm — at the side 10 mm — downwards 10 mm • for live parts — forwards 32 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm — at the side 10 mm Connections/ Terminals		
— at the side 10 mm — downwards 10 mm • for live parts — forwards 32 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm — at the side 10 mm Connections/ Terminals		
— downwards 10 mm ● for live parts 32 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm — at the side 10 mm Connections/ Terminals	·	
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— forwards 32 mm — backwards 0 mm — upwards 50 mm — downwards 10 mm — at the side 10 mm Connections/ Terminals		10 11111
— backwards 0 mm — upwards 50 mm — downwards 10 mm — at the side 10 mm Connections/ Terminals	•	22 mm
 upwards downwards at the side 10 mm 10 mm Connections/ Terminals		
— downwards 10 mm — at the side 10 mm Connections/ Terminals		
— at the side 10 mm Connections/ Terminals	·	
Connections/ Terminals		
		10 mm
type of electrical connection		
	type of electrical connection	

for main current circuit	screw-type terminals	
 for auxiliary and control circuit 	screw-type terminals	
Safety related data		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
Communication/ Protocol		
protocol is supported		
 PROFINET IO protocol 	No	
PROFIsafe protocol	No	
protocol is supported AS-Interface protocol	No	
Certificates/ approvals		

General Product Approval

For use in hazardous locations

Declaration of Conformity

Confirmation











Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









Marine / Shipping

other

Railway

Dangerous Good







Confirmation

Vibration and Shock

Transport 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=3RA2130-4XA37-0NB3

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2130-4XA37-0NB3

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2130-4XA37-0NB3

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

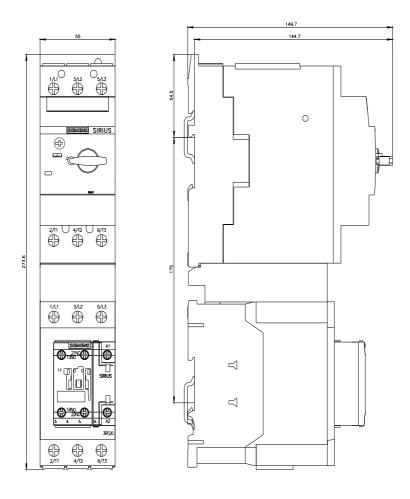
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2130-4XA37-0NB3&lang=en

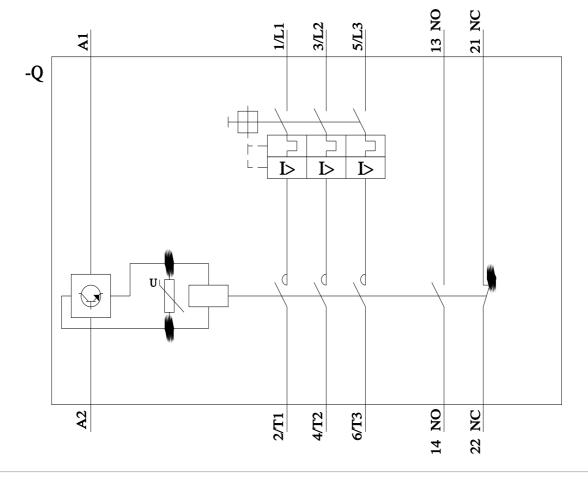
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2130-4XA37-0NB3/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2130-4XA37-0NB3&objecttype=14&gridview=view1





last modified:

