SIEMENS

Data sheet 3RA6250-1CB34



SIRIUS Compact load feeder Reversing starter 690 V 24 V AC/DC 50...60 Hz 1...4 A IP20 Connection main circuit: Screw terminal Connection control circuit: plug-in, without terminals

product designation design of the product product type designation SRA62 Central technical data product function control circuit interface to parallel wiring product type designation Yes product etunction control circuit interface to parallel wiring product etunction auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole • without load current share typical Insulation voltage rated value • degree of pollution 3 surge voltage resistance rated value • between main and auxiliary circuit • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control on NEMA rating other shock resistance f= 4,5, 8 Hz, d= 15 mm; f= 5, 8, 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) • of the main contacts typical of auxiliary contacts typical 10 000 000 of the signaling contacts typical of auxiliary contacts typical 10 000 000 of the signaling contact typical of auxiliary contacts typical 10 000 000 of the signaling contact typical of auxiliary contacts typical 10 000 000 of the signaling contact typical 10 000 000 of the signaling contact typical of auxiliary contacts typical 10 000 000 of the signaling contact typical of auxiliary contacts typical 10 000 000 of the signaling contact typi	product brand name	SIRIUS		
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product type designation General technical data product function control circuit interface to parallel wiring product function control circuit interface to parallel wiring product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state 1 W • at AC in hot operating state per pole • without load current share typical 2.9 W insulation voltage rated value 680 V degree of pollution 3 surge voltage resistance rated value 6 000 V maximum permissible voltage for protective separation • between main and auxiliary circuit 400 V • between auxiliary and auxiliary circuit 250 V • between control and auxiliary circuit 300 V degree of protection NEMA rating 400 V • between control and auxiliary circuit 300 V degree of protection NEMA rating 400 V • between control and auxiliary circuit 300 V degree of protection NEMA rating 400 V • between in the management of the protection of the signaling contacts typical 10 000 000 10 000 000 10 000 000				
Ceneral technical data product function control circuit interface to parallel wiring Yes product extension auxillary switch Yes power loss [W] for rated value of the current * at AC in hot operating state 1 W * at AC in hot operating state 1 PW * at AC in hot operating state per pole 0.33 W * without load current share typical 2.9 W * without load current share typical 2.9 W * at AC in hot operating state per pole 0.33 W * at AC in hot operating state per pole 0.33 W * at AC in hot operating state per pole 0.33 W * at AC in hot operating state per pole 0.30 V * at AC in hot operating state per pole 0.30 V * at AC in hot operating state per pole 0.30 V * at AC in hot operating auxiliary circuit 400 V * at AC in hot operating auxiliary circuit 250 V * at AC in hot operating auxiliary circuit 250 V * at AC in hot operating cycles 10 000 000 at AC in hot operating cycles at				
product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical • surge voltage rated value • degree of pollution surge voltage resistance rated value • 6 000 V maximum permissible voltage for protective separation • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit • shock resistance • a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes wibration resistance mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • of the signaling contacts typical • of the signaling contacts typical • of the signaling contacts typical • at CC-13 at 6 A at 24 V typical • at AC-15 at 6 A at 22 V typical vippe of assignment reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Bleittonzirkonoxid - 12626-81-2 2,2 6.6-Tetrabrom-4,4-isoporpylidendi - 78-94-7 Ambient conditions installation altitude at height above sea level maximum anbient temperature • during operation - 20 +60 °C				
power loss [W] for rated value of the current at AC in hot operating state 1 W at AC in hot operating state prole 0.33 W without load current share typical 2.9 W insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 600 V maximum permissible voltage for protective separation between main and auxiliary circuit 400 V between auxiliary and auxiliary circuit 250 V between control and auxiliary circuit 300 V degree of protection NEMA rating 0ther shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes of the main contacts typical 10 000 000 of the main contacts typical 10 000 000 of the signaling contacts typical 10 000 000 electrical endurance (operating cycles) of auxillary contacts at DC-13 at 6 A at 24 V typical 30 000 at AC-15 at 6 A at 23 V typical 200 000 type of assignment continuous operation according to IEC 60947-6-2 Substance Prohibitance (Date) 05/01/2012 SVHC substance name Bielitanzi/knoxid - 12626-81-2 2, 2, 6, 6-Tetrabrom-4, 4-Tespopylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation - 200 000 Tespor and temperature of during operation - 2-20 +60 °C	product function control circuit interface to parallel wiring	Yes		
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* at AC in hot operating state per pole * without load current share typical insulation voltage rated value degree of pollution surge voltage resistance rated value * 8 000 V maximum permissible voltage for protective separation * between main and auxiliary circuit * between auxiliary and auxiliary circuit * between control and auxiliary circuit * between control and auxiliary circuit * between control and auxiliary circuit * ober were sistance * a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes * vibration resistance * f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) * of the main contacts typical * of of uxiliary contacts typical * of the signaling contacts typical * at DC-13 at 6 A at 24 V typical * at AC-15 at 6 A at 24 V typical * at AC-15 at 6 A at 23 V typical * of the signaling contacts * of the Continual contacts * of the Contact contacts * of th	power loss [W] for rated value of the current			
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between auxiliary and auxiliary circuit between control and auxiliary circuit other shock resistance shock resistance in the main contacts typical of the main contacts typical of the signaling contacts of the signaling contacts typical of the signaling contacts of the signaling contacts typical of the signaling contacts typ	maximum permissible voltage for protective separation			
between control and auxiliary circuit degree of protection NEMA rating shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical of the signaling conta	 between main and auxiliary circuit 	400 V		
degree of protection NEMA rating shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) e of the main contacts typical for dauxiliary contacts typical for dauxiliary contacts typical for dauxiliary contacts typical for double of the signaling contacts typical for dauxiliary contacts for daux	 between auxiliary and auxiliary circuit 	250 V		
shock resistance vibration resistance f = 4 5.8 Hz, d = 15 mm; f = 5.8 500 Hz, a = 20 m/s²; 10 cycles mechanical service life (operating cycles) of the main contacts typical of the signaling contact	 between control and auxiliary circuit 	300 V		
vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) • of the main contacts typical 10 000 000 • of auxiliary contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts • at DC-13 at 6 A at 24 V typical 30 000 • at AC-15 at 6 A at 230 V typical 200 000 type of assignment contacts typical 200 000 type of assignment contacts typical 200 000 Substance Prohibitance (Date) 05/01/2012 SVHC substance name Blei-T439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleittanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation20 +60 °C	degree of protection NEMA rating	other		
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of the signaling contacts typical electrical endurance (operating cycles) of auxiliary contacts • at DC-13 at 6 A at 24 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2	 of the main contacts typical 	10 000 000		
electrical endurance (operating cycles) of auxiliary contacts • at DC-13 at 6 A at 24 V typical • at AC-15 at 6 A at 230 V typical 200 000 type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 5VHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleittanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	 of auxiliary contacts typical 	10 000 000		
 at DC-13 at 6 A at 24 V typical at AC-15 at 6 A at 230 V typical 200 000 type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation -20 +60 °C 	of the signaling contacts typical	10 000 000		
● at AC-15 at 6 A at 230 V typical type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature ● during operation -20 +60 °C	electrical endurance (operating cycles) of auxiliary contacts			
type of assignment reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation continous operation according to IEC 60947-6-2 Q Q 2000 105/01/2012 Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 - 20 +60 °C	• at DC-13 at 6 A at 24 V typical	30 000		
reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	● at AC-15 at 6 A at 230 V typical	200 000		
Substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation 05/01/2012 Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7	type of assignment	continous operation according to IEC 60947-6-2		
SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleiititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	reference code according to IEC 81346-2	Q		
Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 - 20 m - 20 m	Substance Prohibitance (Date)	05/01/2012		
installation altitude at height above sea level maximum ambient temperature ● during operation -20 +60 °C	SVHC substance name	Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2		
ambient temperature • during operation -20 +60 °C	Ambient conditions			
• during operation -20 +60 °C	installation altitude at height above sea level maximum	2 000 m		
	ambient temperature			
• during storage -55 +80 °C	during operation	-20 +60 °C		
	during storage	-55 +80 °C		
• during transport -55 +80 °C	during transport	-55 +80 °C		

relative humidity during operation	10 90 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	1 4 A
formula for making capacity limit current	12 x le
formula for limit current breaking capacity	10 x le
yielded mechanical performance for 4-pole AC motor	
 at 400 V rated value 	1.5 kW
at 500 V rated value	2.2 kW
• at 690 V rated value	3 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
at AC at 400 V rated value	4 A
at AC-3 at 400 V rated value	4 A
• at AC-43	
— at 400 V rated value	3.6 A
— at 500 V rated value	3.9 A
— at 690 V rated value	3.8 A
operating power	
at AC-3 at 400 V rated value	1.5 kW
• at AC-43	
— at 400 V rated value	1 500 W
— at 500 V rated value	2 200 W
— at 690 V rated value	3 000 W
no-load switching frequency	3 600 1/h
operating frequency	3 000 1/11
at AC-41 according to IEC 60947-6-2 maximum	750 1/h
at AC-41 according to IEC 60947-6-2 maximum at AC-43 according to IEC 60947-6-2 maximum	250 1/h
Control circuit/ Control	200 1/11
	ACIDO
type of voltage	AC/DC
control supply voltage 1 at AC • at 50 Hz rated value	24 V
• at 50 Hz	24 ··· 24 V
at 60 Hz rated value	24 V. 24 V
• at 60 Hz	24 V
control supply voltage frequency	Z4 V
• 1 rated value	50 Hz
2 rated value	60 Hz
	00 HZ
control supply voltage 1	24 V
at DC rated value	
• at DC	24 24 V
holding power	201//
at AC maximumat DC maximum	2.8 W
	2.9 W
Auxiliary circuit	0
number of NO contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	2
number of NO contacts of instantaneous short-circuit trip unit for signaling contact	
	1
signaling contact number of CO contacts of the current-dependent overload	
signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum	1
signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V	1 10 A
signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions	1 10 A 0.27 A
signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class	1 10 A
signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics)	1 10 A 0.27 A CLASS 10 and 20 adjustable
signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V	1 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA
signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V • at 500 V rated value	1 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA 3 kA
signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class operating short-circuit current breaking capacity (Ics) • at 400 V	1 10 A 0.27 A CLASS 10 and 20 adjustable 53 kA

full-load current (FLA) for 3-phase AC motor			
at 480 V rated value	4 A		
at 600 V rated value	4 A		
yielded mechanical performance [hp] for 3-phase AC motor			
• at 200/208 V rated value	0.75 hp		
• at 220/230 V rated value	0.75 hp		
• at 460/480 V rated value	2 hp		
at 575/600 V rated value	3 hp		
contact rating of auxiliary contacts according to UL	contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 77-78 R300 / B300, contacts 95-96-98 R300 / D300		
Short-circuit protection			
product function short circuit protection	Yes		
design of short-circuit protection	electromagnetic		
design of the fuse link			
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A		
 for short-circuit protection of the signaling switch of the 	6A gL/gG/400V		
short-circuit release required			
 for short-circuit protection of the signaling switch of the overload release required 	4A gL/gG/400V		
Installation/ mounting/ dimensions			
mounting position	any		
• recommended	vertical, on horizontal standard DIN rail		
fastening method	screw and snap-on mounting		
height	170 mm		
width	90 mm		
depth	165 mm		
Connections/ Terminals			
product component removable terminal for main circuit	Yes		
product component removable terminal for auxiliary and control circuit	Yes		
type of electrical connection	corow type terminals		
for main current circuit for applications and control circuit	screw-type terminals		
for auxiliary and control circuit The of connectable conductor areas positions for main controls.	plug-in without terminals		
type of connectable conductor cross-sections for main contacts	Ov. (4 E C mans2) 4 v. 40 mans2		
• solid	2x (1.5 6 mm²), 1x 10 mm²		
finely stranded with core end processing	2x (1.5 6 mm²)		
type of connectable conductor cross-sections			
for auxiliary contacts	05 4 30 (05 05 3)		
— solid	0.5 4 mm², 2x (0.5 2.5 mm²)		
— finely stranded with core end processing	0.5 2.5 mm², 2x (0.5 1.5 mm²)		
for AWG cables for auxiliary contacts	2x (20 14)		
Safety related data			
B10 value with high demand rate according to SN 31920	3 000 000		
proportion of dangerous failures			
with low demand rate according to SN 31920	40 %		
with high demand rate according to SN 31920	50 %		
failure rate [FIT] with low demand rate according to SN 31920	100 FIT		
T1 value for proof test interval or service life according to IEC 61508	20 a		
protection class IP on the front according to IEC 60529	IP20		
touch protection on the front according to IEC 60529	finger-safe		
Communication/ Protocol			
product function bus communication	No		
protocol is supported			
AS-Interface protocol	No		
IO-Link protocol	No		
product function control circuit interface with IO link	No		
Electromagnetic compatibility			
conducted interference			
due to burst according to IEC 61000-4-4	4 kV main contacts, 2 kV auxiliary contacts		
-	4 kV main contacts, 2 kV auxiliary contacts		
touch protection on the front according to IEC 60529 Communication/ Protocol product function bus communication protocol is supported • AS-Interface protocol • IO-Link protocol product function control circuit interface with IO link Electromagnetic compatibility conducted interference	No No No No No A kV main contacts, 2 kV auxiliary contacts		

61000-4-5			
 due to high-frequency radiation according to IEC 61000- 4-6 	0.15-80Mhz at 10V		
field-based interference according to IEC 61000-4-3	10 V/m		
electrostatic discharge according to IEC 61000-4-2	8 kV		
conducted HF interference emissions according to CISPR11	150 kHz 30 MHz Class A		
field-bound HF interference emission according to CISPR11	30 1000 MHz Class A		
Supply voltage			
Supply voltage required Auxiliary voltage	No		
Display			
number of LEDs	3		
Certificates/ approvals			
General Product Approval		EMC	Functional Safety/Safety of Ma- chinery



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other

Dangerous Good





Confirmation

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 Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA6250-1CB34

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6250-1CB34

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-1CB3

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

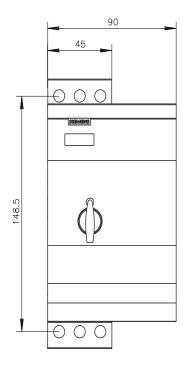
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6250-1CB34&lang=en

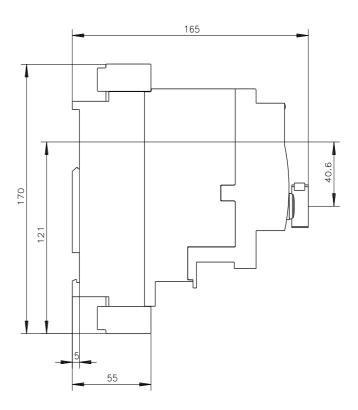
Characteristic: Tripping characteristics, I2t, Let-through current

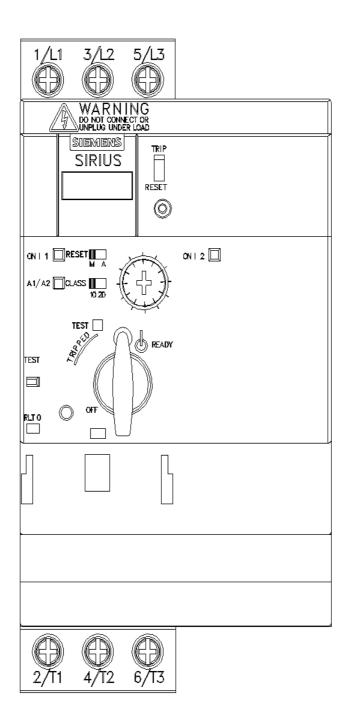
https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-1CB34/char

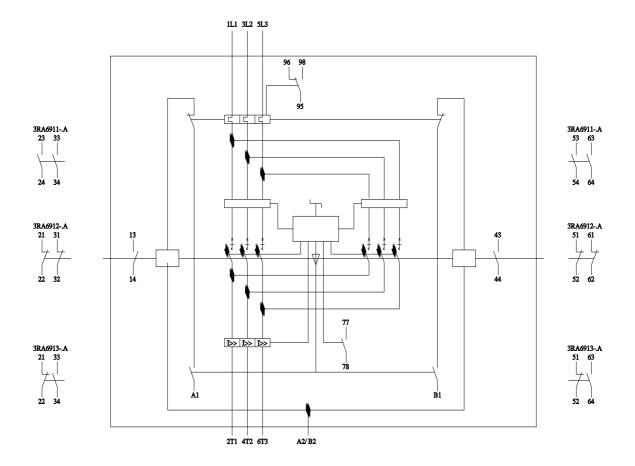
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6250-1CB34&objecttype=14&gridview=view1









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