SIEMENS

Data sheet 3RA6250-2AP33



SIRIUS Compact load feeder Reversing starter 690 V 110...240 V AC/DC 50...60 Hz 0.1...0.4 A IP20 Connection main circuit: plug-in, without terminals Connection control circuit: Spring-type terminal

product designation cempact starter design of the product reversing starter product type designation SRA62 Ceneral technical data product function control circuit interface to parallel wiring yes product extension auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state • 0.01 W • at AC in hot operating state per pole 0.01 W • without load current share typical 6 W Insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6000 V maximum permissible voltage for protective separation • between main and auxiliary circuit 400 V • between entrol and auxiliary circuit 250 V • between control and auxiliary circuit 300 V degree of protection NEMA rating 500 V degree of protection NEMA rating 500 V • between control and auxiliary circuit 400 V • between control and auxiliary circuit 500 V • between control and auxiliary circuit	product brand name	SIRIUS
product type designation General technical data product function control circuit interface to parallel wiring product function control circuit interface to parallel wiring product function control circuit interface to parallel wiring product extension auxiliary switch **Yes **Possortion for a control of the current ***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 **surge voltage resistance rated value **maximum permissible voltage for protective separation **between auxiliary and auxiliary circuit **between auxiliary and auxiliary circuit **between control and auxiliary circuit **between control and auxiliary circuit **between control and auxiliary circuit **shock resistance **shock resistance **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **without on resistance **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **without on resistance **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **at 15 c-15 sh	product designation	compact starter
Ceneral technical data 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 0.01 W • at AC in hot operating state per pole • without load current share typical 6 W insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6 000 V maximum permissible voltage for protective separation • between main and auxiliary circuit 250 V • between auxiliary and auxiliary circuit 250 V • between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance = a=60 m/s2 (8g) 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 10 000 000 • of auxiliary contacts typical 10 000 000 • of auxiliary contacts typical 20 000 000 electrical endurance (operating cycles) of auxiliary contacts • at DC-13 at 6 A at 24 V typical 20 0000 type of assignment contacts at 4 AC-15 at 6 A at 230 V typical 20 0000 type of assignment contact contact contact contact and contact	design of the product	reversing starter
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 • at AC in hot operating state per pole • without load current sharet typical • without load current sharet typical • without load current sharet typical • good of pollution • good of pollution • good of pollution • between fine and auxiliary circuit • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • between the control and auxiliary circuit • between the control and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit • about resistance • a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes • at 56 m/s2 (6g) with 10 ms per 3 shocks in all axes • at 4 58 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 auxiliary contacts typical • of auxiliary contacts typical • of the signaling contacts typical • of the signaling contacts typical • at AC-15 at 6 A at 23 V typical • at AC-15 at 6 A at 23 V typical • at AC-15 at 6 A at 23 V typical • at AC-15 at 6 A at 23 V typical • at AC-15 at 6 A at 23 V typical • at AC-15 at 6 A at 23 V typical • at AC-15 at 6 A at 23 V typical • at AC-15 at 6 A at 23 V typical • at AC-15 at 6 A at 23 V typical • at AC-15 at 6 A at 23 V typical • at AC-15 at 6 A at 23 A V typical • at AC-15 at 6 A at 23 A V typical • at AC-15 at 6 A at 24 A V typical • at AC-15 at 6 A at 25 A V typical • at AC-15 at 6 A at 25 A V typical • at AC-15 at 6 A at 25 A V typical • at AC-15 at 6 A at 25 A V typical • at AC-15 at 6 A at 25 A V typical • at AC-15 at 6 A at 25 A V	product type designation	3RA62
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power loss [W] for rated value of the current at AC in hot operating state 0.01 W at AC in hot operating state per pole 0.01 W without load current share typical 6 W insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6000 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 500 other seistance 6 can 6 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance 6 can 6 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance 7 can 6 ms 2 can 6 c	product function control circuit interface to parallel wiring	Yes
at AC in hot operating state at AC in hot operating state per pole without load current share typical insulation voltage radd value degree of pollution 3 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 auxiliary circuit between auxiliary and auxiliary circuit between auxiliary circuit between auxiliary circuit between control and auxiliary circuit between control and auxiliary circuit between auxiliary circuit between auxiliary circuit between auxiliary and auxiliary circuit between auxi	product extension auxiliary switch	Yes
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 between main and auxiliary circuit between nuxiliary and auxiliary circuit between control and au	power loss [W] for rated value of the current	
without load current share typical feyer of pollution surge voltage resistance rated value between main and auxiliary circuit between main and auxiliary circuit between control and auxiliary circuit ae60 m/s2 (6g) with 10 ms per 3 shocks in all axes fe 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) for 000 000 for 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) for 000 000 for 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) for 000 000 for 00	 at AC in hot operating state 	0.01 W
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surge voltage resistance rated value maximum permissible voltage for protective separation • between an and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • other 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 auxiliary contacts typical • of the signaling contacts typical • of the signaling contacts typical • 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 • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • obsignment reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit	insulation voltage rated value	690 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 300 V degree of protection NEMA rating other 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 the signaling contacts typical • of the signaling contacts typical • 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 • of the signaling contacts typical continous operation according to IEC 60947-6-2 Teference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 90 % Main circuit	degree of pollution	3
between auxiliary and auxiliary circuit between control and auxiliary circuit between control and auxiliary circuit degree of protection NEMA rating other 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 contacts typical of the signaling contacts typical of the signaling contacts typical lelectrical 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 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oluring storage oluring transport -55 +80 °C relative humidity during operation 10 90 % Main circuit	surge voltage resistance rated value	6 000 V
between auxiliary and auxiliary circuit between control and auxiliary circuit other degree of protection NEMA rating shock resistance	maximum permissible voltage for protective separation	
between control and auxiliary circuit degree of protection NEMA rating shock resistance	 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) of the main contacts typical of auxiliary contacts typical of the signaling contacts typical of the continuation of the contact of the contac	 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 auxiliary contacts typical • of the signaling contacts typical • of the signaling contacts typical • of the signaling contacts typical • at DC-13 at 6 A at 24 V typical • at DC-13 at 6 A at 230 V typical • of A at 230 V typical • of A at 230 V typical • of type of assignment reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit 10 000 000 10 000 000 10 000 000 10 000 00	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) 10 000 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts 30 000 • at DC-13 at 6 A at 24 V typical 200 000 • 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) 05/01/2012 Ambient conditions 05/01/2012 installation altitude at height above sea level maximum 2 000 m ambient temperature 0 during operation -20 +60 °C 0 during storage -55 +80 °C 0 during transport -55 +80 °C relative humidity during operation 10 90 %	degree of protection NEMA rating	other
mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of the signaling contacts typical • 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 200 000 type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage • during transport relative humidity during operation Main circuit	shock resistance	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes
of the main contacts typical of auxiliary contacts typical of the signaling contacts typical one to DC-13 at 6 A at 24 V typical one at AC-15 at 6 A at 230 V typical one at AC-15 at 6 A at 230 V typical one to descript the signal type of assignment continous operation according to IEC 60947-6-2 Interpretation of the signal type of assignment Interpretation of the signal type of auxiliary contacts Installation altitude at height above sea level maximum Interpretation Interpret	vibration resistance	f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles
of auxiliary contacts typical of the signaling contacts typical of the signaling contacts typical electrical endurance (operating cycles) of auxiliary contacts o at DC-13 at 6 A at 24 V typical o at AC-15 at 6 A at 230 V typical other of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Quantity of assignment Quantity of according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions Installation altitude at height above sea level maximum Quantity of the signal according to IEC 60947-6-2 ambient temperature oduring operation during storage oduring storage oduring transport relative humidity during operation Main circuit	mechanical service life (operating cycles)	
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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) 05/01/2012 Ambient conditions installation altitude at height above sea level maximum ambient temperature at during operation at during storage at during storage at during transport at each of C at each of	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) 05/01/2012 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation -20 +60 °C • during storage -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit	electrical endurance (operating cycles) of auxiliary contacts	
type of assignment reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit continous operation according to IEC 60947-6-2 Q Q D5/01/2012 Ambient conditions 2 000 m -20 +60 °C -55 +80 °C -55 +80 °C -55 +80 °C -55 +90 °C	• at DC-13 at 6 A at 24 V typical	30 000
reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit Q 05/01/2012 Q 05/01/2012	• at AC-15 at 6 A at 230 V typical	200 000
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 90 % Main circuit	type of assignment	continous operation according to IEC 60947-6-2
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit 2 000 m -20 +60 °C -55 +80 °C -55 +80 °C 10 90 %	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport -55 +80 °C relative humidity during operation 2 000 m -20 +60 °C -55 +80 °C 10 90 % Main circuit	Substance Prohibitance (Date)	05/01/2012
ambient temperature • during operation • during storage • during transport -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit	Ambient conditions	
 during operation during storage during transport telative humidity during operation Main circuit 	installation altitude at height above sea level maximum	2 000 m
• during storage • during transport • during transport • during transport • 55 +80 °C relative humidity during operation 10 90 % Main circuit	ambient temperature	
● during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit	during operation	-20 +60 °C
relative humidity during operation 10 90 % Main circuit	during storage	-55 +80 °C
Main circuit	during transport	-55 +80 °C
	relative humidity during operation	10 90 %
number of poles for main current circuit 3	Main circuit	
	number of poles for main current circuit	3

adjustable current response value current of the current-	0.1 0.4 A
dependent overload release	
formula for making capacity limit current	120 x le
formula for limit current breaking capacity	100 x le
yielded mechanical performance for 4-pole AC motor	
• at 400 V rated value	0.09 kW
at 500 V rated value	0.12 kW
at 690 V rated value	0.18 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
 at AC at 400 V rated value 	0.4 A
 at AC-3 at 400 V rated value 	0.4 A
• at AC-43	
— at 400 V rated value	0.3 A
— at 500 V rated value	0.32 A
— at 690 V rated value	0.35 A
operating power	
• at AC-3 at 400 V rated value	0.09 kW
• at AC-43	
— at 400 V rated value	90 W
— at 500 V rated value	120 W
— at 690 V rated value	180 W
no-load switching frequency	3 600 1/h
operating frequency	
• at AC-41 according to IEC 60947-6-2 maximum	750 1/h
• at AC-43 according to IEC 60947-6-2 maximum	250 1/h
Control circuit/ Control	
type of voltage	AC/DC
control supply voltage 1 at AC	
at 50 Hz rated value	240 V
● at 50 Hz	110 240 V
● at 60 Hz	110 240 V
control supply voltage frequency	
• 1 rated value	50 Hz
2 rated value	60 Hz
control supply voltage 1	
at DC rated value	240 V
• at DC	110 240 V
holding power	
at AC maximum	6 W
at DC maximum	5.1 W
Auxiliary circuit	
number of NC 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
number of CO contacts of the current-dependent overload release for signaling contact	1
operational current of auxiliary contacts at AC-12 maximum	10 A
operational current of auxiliary contacts at DC-13 at 250 V	0.27 A
Protective and monitoring functions	
trip class	CLASS 10 and 20 adjustable
operating short-circuit current breaking capacity (Ics)	
• at 400 V	53 kA
• at 500 V rated value	3 kA
at 690 V rated value	3 kA
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.4 A
at 600 V rated value	0.4 A
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 short-circuit release required 	6A gL/gG/400V
• 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	191 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	
for main current circuit	plug-in without terminals
for auxiliary and control circuit	spring-loaded terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1.5 6 mm²), 1x 10 mm²
 finely stranded with core end processing 	2x (1.5 6 mm²)
finely stranded without core end processing	2x (1.5 6 mm²)
type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid	2x (0.25 1.5 mm²)
 finely stranded with core end processing 	2x (0.25 1.5 mm²)
— finely stranded without core end processing	2x (0.25 1.5 mm²)
for AWG cables for auxiliary contacts	2x (24 16)
Safety related data	0.000.000
B10 value with high demand rate according to SN 31920	3 000 000
proportion of dangerous failures	40.04
with low demand rate according to SN 31920 with high demand rate according to SN 31920	40 % 50 %
with high demand rate according to SN 31920 failure rate IEITI with low demand rate according to SN 31920	100 FIT
failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC	20 a
61508	IP20
protection class IP on the front according to IEC 60529	IP20 finger-safe
touch protection on the front according to IEC 60529 Communication/ Protocol	iiigur-saic
product function bus communication	No
protocol is supported	INO
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
 due to conductor-earth surge according to IEC 61000-4-5 	4 kV main contacts, 2 kV auxiliary contacts
due to conductor-conductor surge according to IEC 61000-4-5	2 kV main contacts, 1 kV auxiliary contacts
 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
Cartificated approvals	

Certificates/ approvals

General Product Approval

EMC

Functional Safety/Safety of Machinery

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=3RA6250-2AP33

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA6250-2AP33}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-2AP33

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

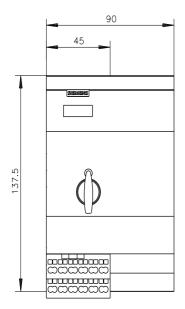
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6250-2AP33&lang=en

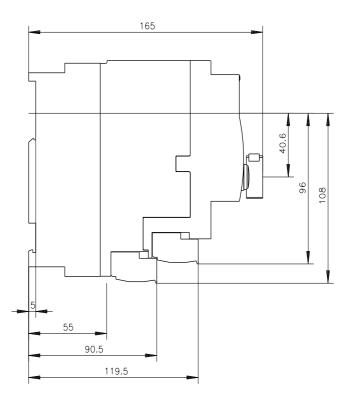
Characteristic: Tripping characteristics, I2t, Let-through current

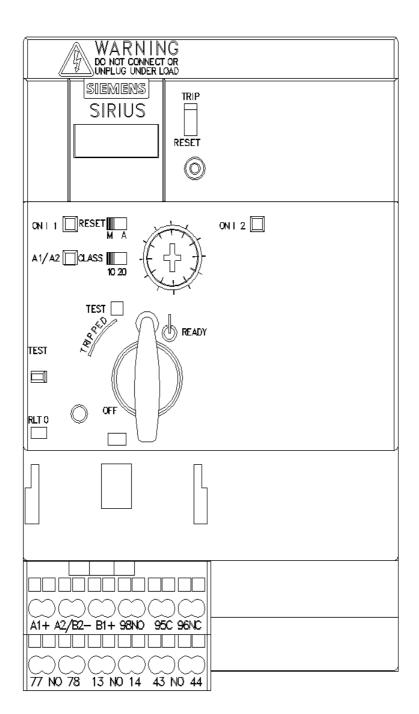
https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-2AP33/char

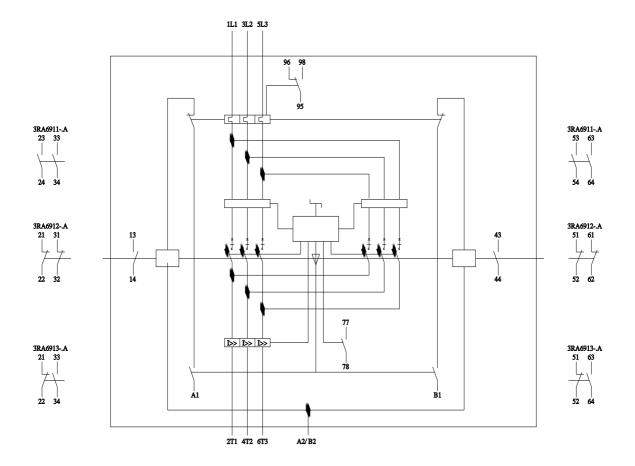
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6250-2AP33&objecttype=14&gridview=view1









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