## **SIEMENS**

Data sheet 3RA6250-1BP33



SIRIUS Compact load feeder Reversing starter 690 V 110...240 V AC/DC 50...60 Hz 0.32...1.25 A IP20 Connection main circuit: plug-in, without terminals Connection control circuit: screw terminal

product designation compact starter  design of the product reversing starter  product type designation  Genoral 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 • 0.1 W  • at AC in hot operating state per pole • without load current share typical 6 W  Insulation vortage rated value • degree of pollution 3  surge voltage resistance rated value  • between main and auxiliarly circuit 400 V  • between namin and auxiliarly circuit 250 V • between control and auxiliary circuit 300 V  degree of protection NEMA rating 5hock resistance  mechanical service life (operating cycles) • of the main contacts typical 10 000 000  • of the signaling contacts typical 10 000 000  • of the signaling contacts typical 200 000  • of the signaling contact typ	product brand name	SIRIUS
design of the product product type designation 3RA62  General technical data product function control circuit interface to parallel wiring product function control circuit interface to parallel wiring product extension auxiliary switch  Yes  power loss IVM for rated value of the current  • at AC in hot operating state per pole • without load current share typical • at AC in hot operating state per pole • without load current share relytical • as the pollution 3  Insulation voltage rated value 690 V  degree of pollution 3  surge voltage resistance rated value  • between main and auxiliary circuit • between main and auxiliary circuit • between main and auxiliary circuit • between control and auxiliary circuit • of auxiliary contacts typical • of the signaling contacts typical • of the signaling contacts typical • of the signaling contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • at AC-15 at 6 A at 230 V typical • at	•	
product type designation  General technical data product necession control circuit interface to parallel wiring product extension 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 without load current share typical insulation voltage rated value  degree of pollution  surge voltage resistance rated value  degree of pollution  surge voltage resistance rated value 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 between control and auxiliary circuit shock resistance 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 at AC-15 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 between code according to IEC 81348-2 Quustance Prohibitance (Date)  SUHC substance Prohibitance (Date)  SUHC substance name  Biel- 7439-92-1 Biel-		·
General 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 • at AC in hot operating state per pole • without load current share typical • begree of pollution  surge voltage resistance rated value • 60 00 V  maximum permissible voltage for protective separation • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control and suxiliary circuit • between control and suxiliary circuit • between control and suxiliary circuit • shock 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 • at DC-13 at 6 A at 24 V typical • at DC-13 at 6 A at 230 V typical • at AC-15 at		
product extension auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state   0.1 W   • 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   0ther   shock resistance   a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes   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   • of the signaling contacts typical   10 000 000   • of the signaling contacts typical   10 000 000   • of the signaling contacts typical   10 000 000   • of the signaling contacts typical   200 000   type of assignment   200 000   type of sassignment   200 000   SWHC substance Prohibitance (Date)   5501/2012   SWHC substance name   58 lei- 7439-92-1   Blei- 7439-92-1   Bleimonoxid (Bleioxid) - 1317-36-8   Bleithancytickonxid - 12626-81-2   2,2,6,6"-Tetrabrom-4,4"-isopropylidendi - 79-94-7   Amblent conditions   installation altitude at height above sea level maximum   2 000 m   amblent temperature   4 during operation   -20 +60 °C   4 during storage   -55 +80 °C		
product extension auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state   0.1 W   • 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   0ther   shock resistance   a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes   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   • of the signaling contacts typical   10 000 000   • of the signaling contacts typical   10 000 000   • of the signaling contacts typical   10 000 000   • of the signaling contacts typical   200 000   type of assignment   200 000   type of sassignment   200 000   SWHC substance Prohibitance (Date)   5501/2012   SWHC substance name   58 lei- 7439-92-1   Blei- 7439-92-1   Bleimonoxid (Bleioxid) - 1317-36-8   Bleithancytickonxid - 12626-81-2   2,2,6,6"-Tetrabrom-4,4"-isopropylidendi - 79-94-7   Amblent conditions   installation altitude at height above sea level maximum   2 000 m   amblent temperature   4 during operation   -20 +60 °C   4 during storage   -55 +80 °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  for without load survive separation  between of pollution  about load auxiliary circuit  between auxiliary and auxiliary circuit  between auxiliary and auxiliary circuit  between control and auxiliary circuit  between resistance  a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes  mechanical service life (operating cycles)  of the main contacts typical  of auxiliary contacts typical  for the signaling contacts typical  of the signaling contacts typical  of the signaling contacts typical  at AC-15 at 6 A at 24 V typical  at AC-15 at 6 A at 24 V typical  of at AC-15 at 6 A at 24 V typical  of axiliary contacts  at DC-13 at 6 A at 24 V typical  of at AC-15 at 6 A at 24 V typical  of at AC-15 at 6 A at 24 V typical  between control operating cycles of auxiliary contacts  at C-15 at 6 A at 24 V typical  continous operation according to IEC 60947-6-2  Questiance Prohibitance (Date)  SVHC substance name  blief rys-gas-gas-leading service and service	product extension auxiliary switch	Yes
at AC in hot operating state per pole  without load current share typical  for W  insulation voltage rated value  degree of pollution  between ramin and auxiliary circuit  between auxiliary and auxiliary circuit  between control and auxiliary cortact  between control and auxiliary cortacts  between control and auxiliary cycles)  between control and auxiliary cycles  between control auxiliary cycles  between control and auxiliary cycles  cycles of your cycles of over a specific cycles  cycles of your cycles of the specific cycles of over a specific cycles  cycles of your cycles of the specific cycles  cycles of your cycles of the your cycles of over a specific cycles  cycles of your cycles of the your cycles of over a specific cycles  cycles of your cycles of the your cycles of the your cycles of the your cycle	power loss [W] for rated value of the current	
without load current share typical     insulation voltage rated value     degree of pollution     surge voltage resistance rated value	at AC in hot operating state	0.1 W
insulation 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 nain and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit 300 V  degree of protection NEMA rating shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes  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 220 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical  Substance Prohibitance (Date)  SVHC substance name  Blei- 7439-92-1 Blei- 7439-92-1 Bleil-monoxid (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 • during storage • during transport	• at AC in hot operating state per pole	0.03 W
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 300 V  degree of protection NEMA rating other 3 shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes 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 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 200 000  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 continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012  SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititrarzirkonoxid - 12826-81-2 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 operation - 20 +60 °C • during storage - 55 +80 °C	<ul> <li>without load current share typical</li> </ul>	6 W
surge voltage resistance rated value  maximum permissible voltage for protective separation  • between auxiliary circuit  • between auxiliary and auxiliary circuit  • between control and auxiliary circuit  • other  shock resistance  mechanical service life (operating cycles)  • of the main contacts typical  • of auxiliary contacts typical  • of the signaling contacts typical  • of auxiliary contacts typical  • at DC-13 at 6 A at 24 V typical  • at AC-15 at 6 A at 23 V typical  • at AC-15 at 6 A at 23 V typical  • othinous 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  • during storage  • during transport  6 000 V  400 00  400 00  400 000  4	insulation voltage rated value	690 V
maximum permissible voltage for protective separation  • between main and auxiliary circuit  • between control and auxiliary circuit  degree of protection NEMA rating  other  shock resistance  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 24 V typical  • at AC-15 at 6 A at 230 V typical  • of auxiliary contacts  • at DC-13 at 6 A at 230 V typical  • at AC-15 at 6 A at 230 V typical  • between existing the continual permission of	degree of pollution	3
between main and auxiliary circuit between auxiliary and auxiliary circuit between control and auxiliary circuit  other between control and auxiliary circuit  300 V  degree of protection NEMA rating other shock resistance  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 of the auxiliary contacts typical of the auxiliary contacts typical of the signaling contacts typical  of the signaling contacts typical of the signaling contacts typical of the signaling contacts typical of the contact of typical of the signaling contacts typical of the signaling contacts typical of the signaling contacts typical of the contact of typical of the signaling contacts typical of the main con	surge voltage resistance rated value	6 000 V
between auxiliary and auxiliary circuit     between control and auxiliary circuit     shock resistance     shock resistance     mechanical service life (operating cycles)     of the main contacts typical     of auxiliary contacts typical     of auxiliary contacts typical     of the signaling	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  mechanical service life (operating cycles)     of the main contacts typical     of auxiliary contacts typical     of the signaling contacts typical  electrical endurance (operating cycles) of auxiliary contacts     of the continual contact typical     one that DC-13 at 6 A at 24 V typical     one that DC-15 at 6 A at 230 V typical     one that DC-15 a	<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
degree of protection NEMA rating shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes  mechanical service life (operating cycles)  of the main contacts typical to 000 000 of the signaling contacts typical to 000 000 of the signaling contacts typical to 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 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 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 during storage during transport  other  other a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes  10 000 000  10 000 000  10 000 000  10 000 00	<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	250 V
shock resistance  mechanical service life (operating cycles)  of the main contacts typical of the signaling contacts typical of the	between control and auxiliary circuit	300 V
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  • ontinous operation according to IEC 60947-6-2  reference code according to IEC 81346-2  Question of the signaling contacts of the signal provided in the signal pr	degree of protection NEMA rating	other
of the main contacts typical     of auxiliary contacts typical     of the signaling contacts     of	shock resistance	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes
of auxiliary contacts typical     of the signaling contacts typical     of the signaling contacts typical     of the signaling contacts typical     one contact typical     one contact typical     one at AC-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 type of assignment     continous operation according to IEC 60947-6-2  Interpretation according to IEC 60947-6-2  Substance Prohibitance (Date)  SVHC substance name  Blei - 7439-92-1  Bleimonoxid (Bleioxid) - 1317-36-8  Bleititranzirkonoxid - 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     one during operation     one during storage     one during transport  10 000 000  200 0	mechanical service life (operating cycles)	
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  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     o during operation     o during storage     o during transport  10 000 000  20 000  continous operation according to IEC 60947-6-2  Q  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  2 000 m  ambient temperature     o during storage     o during transport  -20 +60 °C  -55 +80 °C	<ul> <li>of the main contacts typical</li> </ul>	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  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  SVHC 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  • during storage  • during transport  -20 +60 °C  • during transport	<ul> <li>of auxiliary contacts typical</li> </ul>	10 000 000
at DC-13 at 6 A at 24 V typical  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  during storage  during transport  30 000  200 0	of the signaling contacts typical	10 000 000
at AC-15 at 6 A at 230 V typical  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  during storage  during storage  during transport  200 000  continous operation according to IEC 60947-6-2  Q  205/01/2012  Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7  Ambient conditions  installation altitude at height above sea level maximum  2 000 m  ambient temperature  during storage  during transport  -20 +60 °C  -55 +80 °C  -55 +80 °C	electrical endurance (operating cycles) of auxiliary contacts	
type of assignment  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  during storage during transport  continous operation according to IEC 60947-6-2  Q  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  2 000 m  ambient temperature  during operation -20 +60 °C -55 +80 °C -55 +80 °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  oduring operation oduring storage oduring transport  -20 +60 °C oduring transport  -55 +80 °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 2 000 m  ambient temperature  • during operation • during storage • during transport  -20 +60 °C  -55 +80 °C	type of assignment	continous operation according to IEC 60947-6-2
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 during storage during storage during transport  Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7  2 000 m  -20 +60 °C -55 +80 °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 • during storage • during transport  Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7  2 000 m  -20 +60 °C -55 +80 °C -55 +80 °C	Substance Prohibitance (Date)	05/01/2012
installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  -20 +60 °C  -55 +80 °C  -55 +80 °C	SVHC substance name	Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2
ambient temperature  ● during operation  • during storage  • during transport  -20 +60 °C  -55 +80 °C  -55 +80 °C	Ambient conditions	
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>-20 +60 °C</li> <li>-55 +80 °C</li> <li>-55 +80 °C</li> </ul>	installation altitude at height above sea level maximum	2 000 m
<ul> <li>◆ during storage</li> <li>◆ during transport</li> <li>-55 +80 °C</li> <li>-55 +80 °C</li> </ul>	ambient temperature	
• during transport -55 +80 °C	<ul> <li>during operation</li> </ul>	-20 +60 °C
	during storage	-55 +80 °C
relative humidity during operation 10 90 %	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	0.32 1.25 A
formula for making capacity limit current	38.4 x le
formula for limit current breaking capacity	32 x le
yielded mechanical performance for 4-pole AC motor	02 X IC
at 400 V rated value	0.37 kW
at 500 V rated value     at 500 V rated value	0.55 kW
at 690 V rated value     at 690 V rated value	0.75 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	090 V
at AC at 400 V rated value	1.25 A
at AC-3 at 400 V rated value     at AC-3 at 400 V rated value	1.25 A
• at AC-43	1.23 A
— at 400 V rated value	1.1 A
— at 500 V rated value	1.2 A
— at 500 V rated value  — at 690 V rated value	1.2 A 1.1 A
	I.I A
operating power	0.27 kW
at AC-3 at 400 V rated value     at AC-43	0.37 kW
• at AC-43	270 M
— at 400 V rated value	370 W
— at 500 V rated value	550 W
— at 690 V rated value	750 W
no-load switching frequency	3 600 1/h
operating frequency	750.4//
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	100
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 (lcs)	
• 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	1.25 A

• at 600 V rated value   1.25 A   yielded mechanical performance [hp] for 3-phase AC motor   • at 460/480 V rated value   0.5 hp   contact rating of auxiliary contacts according to UL   contact sets of the set of the short-circuit protection of the signaling switch of the short-circuit protection of the signaling switch of the set overload release required   • for short-circuit protection of the signaling switch of the overload release required   • for short-circuit protection of the signaling switch of the overload release required   • for short-circuit protection of the signaling switch of the overload release required   • for short-circuit protection of the signaling switch of the overload release required   • for short-circuit protection of the signaling switch of the overload release required   • for short-circuit protection of the signaling switch of the overload release required   • for short-circuit protection of the signaling switch of the overload release required   • for short-circuit protection of the signaling switch of the overload release required   • for short-circuit protection of the signaling switch of the short-circuit   • for auxiliary and control circuit   • for auxiliary contacts   • for auxiliary and control circuit   • for auxiliary contacts   • for aux	
at 460/480 V rated value at 575/500 V rated value contact rating of auxiliary contacts according to UL contact rating of auxiliary contacts according to UL contacts 95-96-98 R300 / D300  Short-circuit protection product function short circuit protection design of short-circuit protection design of short-circuit protection of the auxiliary switch required of oshort-circuit protection of the signaling switch of the short-circuit protection of the signaling switch of the short-circuit protection of the signaling switch of the overload release required of oshort-circuit protection of the signaling switch of the overload release required of oshort-circuit protection of the signaling switch of the overload release required overload release required  Installation/mounting/dimensions mounting position or recommended vertical, on horizontal standard DIN rail screw and snap-on mounting height 170 mm depth 170 mm depth 165 mm  Connections/ Terminals product component removable terminal for main circuit Yes product component removable terminal for auxiliary and control circuit type of electrical connection of or auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections of or auxiliary contacts of auxiliary c	
• at 575/600 V rated value  contact rating of auxiliary contacts according to UL  contacts 95-96-98 R300 / D300  Short-circuit protection  product function short circuit protection  design of short-circuit protection of the sus link  • for short-circuit protection of the signaling switch of the short-circuit protection of the signaling switch of the overload release required  • for short-circuit protection of the signaling switch of the overload release required  • for short-circuit protection of the signaling switch of the overload release required  • for short-circuit protection of the signaling switch of the overload release required  • for short-circuit protection of the signaling switch of the overload release required  Installation/mounting/dimensions  mounting position  • recommended  fastening method  screw and snap-on mounting  height  into minument of the signaling switch of the screw and snap-on mounting  height  for minument of the signaling switch of the screw and snap-on mounting  type of electrical connections  • for main current removable terminal for main circuit  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  type of connectable conductor cross-sections for main contacts  • solid  • finely stranded with core end processing  • for auxiliary contacts  • for AWG cables for auxiliary contacts  2 x (1.5 6 mm²)  2 x (2.0 1.5 mm²)  5 x (20 1.5 mm²)	
contact rating of auxillary contacts according to UL  contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 77-78 R300 / B3 contacts 95-96-98 R300 / D300  Short-circuit protection  product function short circuit protection  design of short-circuit protection of the suxiliary switch required  of or short-circuit protection of the signaling switch of the short-circuit release required  of or short-circuit protection of the signaling switch of the overload release required  installation/ mounting/ dimensions  mounting position  recommended  of reshort-circuit protection of the signaling switch of the overload release required  installation/ mounting/ dimensions  mounting position  recommended  of reshort-circuit protection of the signaling switch of the overload release required  installation/ mounting/ dimensions  mounting position  of recommended  of reshort-circuit protection of the signaling switch of the overload release required  installation/ mounting/ dimensions  mounting position  of recommended  of recommended  of remaination  of remaination  of remaination  of remaination  of remain current circuit  of or auxiliary and control circuit  type of electrical connection  of remain current circuit  of connectable conductor cross-sections for main contacts  osolid  of renew stranded with core end processing  of connectable conductor cross-sections  of remaining contacts  of remaining	
Short-circuit protection  product function short circuit protection  design of short-circuit protection  design of the fuse link  • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the signaling switch of the short-circuit protection of the signaling switch of the short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required  installation/ mounting/ dimensions  mounting position • recommended • recommended • screw and snap-on mounting  height 170 mm  width 90 mm  depth 165 mm  Connections/ Terminals  product component removable terminal for main circuit  type of electrical connection • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections • for auxiliary contacts  • solid • finely stranded with core end processing • for AWG cables for auxiliary contacts	
product function short circuit protection  design of short-circuit protection  design of the fuse link  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the signaling switch of the short-circuit release required  • for short-circuit protection of the signaling switch of the short-circuit release required  • for short-circuit protection of the signaling switch of the overload release required  • for short-circuit protection of the signaling switch of the overload release required  • for short-circuit protection of the signaling switch of the overload release required  • for short-circuit protection of the signaling switch of the overload release required  • for short-circuit protection of the signaling switch of the overload release required  • for short-circuit protection of the signaling switch of the short-circuit standard DIN rail  • fastening method  • recommended  • screw and snap-on mounting  • for mm  • depth  • for mm  • for mm  • Connections/ Terminals  product component removable terminal for main circuit  product component removable terminal for auxiliary and control circuit  • solid  • finely stranded with core end processing  • for auxiliary contacts  • for auxiliary contacts  • solid  — finely stranded with core end processing  • for AWG cables for auxiliary contacts	)0,
design of short-circuit protection  design of the fuse link  • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the signaling switch of the short-circuit release required • for short-circuit protection of the signaling switch of the short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required  Installation/ mounting/ dimensions  mounting position • recommended • vertical, on horizontal standard DIN rail  fastening method • screw and snap-on mounting  height • 170 mm  width • 90 mm  depth  Connections/ Terminals  product component removable terminal for main circuit  Yes  product component removable terminal for auxiliary and control circuit  type of electrical connection • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections for main contacts • solid • finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts  - solid - finely stranded with core end processing • for AWG cables for auxiliary contacts	
design of the fuse link  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the signaling switch of the short-circuit release required  • for short-circuit protection of the signaling switch of the overload release required  • for short-circuit protection of the signaling switch of the overload release required  Installation/ mounting/ dimensions  mounting position  • recommended  • recommended  • recommended  fastening method  height  170 mm  width  90 mm  depth  Connections/ Terminals  product component removable terminal for main circuit  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  type of connectable conductor cross-sections for main contacts  • solid  • finely stranded with core end processing  • for auxiliary contacts	
• for short-circuit protection of the auxiliary switch required • for short-circuit protection of the signaling switch of the short-circuit release required • for short-circuit protection of the signaling switch of the overload release required  • for short-circuit protection of the signaling switch of the overload release required  Installation/mounting/dimensions  mounting position • recommended • recommended • 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  type of electrical connection • for auxiliary and control circuit  type of connectable conductor cross-sections • finely stranded with core end processing  type of connectable conductor • for auxiliary contacts  • solid  - solid  - finely stranded with core end processing • for AWG cables for auxiliary contacts  2x (20 14)	
• for short-circuit protection of the signaling switch of the short-circuit release required  • for short-circuit protection of the signaling switch of the overload release required  Installation/ mounting/ dimensions  mounting position  • recommended  • recommended  fastening method  fastening method  height  170 mm  connections/ Terminals  product component removable terminal for main circuit  product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  • solid  • for auxiliary contacts  • for auxiliary con	
short-circuit release required  • for short-circuit protection of the signaling switch of the overload release required  Installation/ mounting/ dimensions  mounting position  • recommended  • recommen	
installation/ mounting/ dimensions  mounting position  • recommended  vertical, on horizontal standard DIN rail  fastening method  height  170 mm  width  depth  165 mm  Connections/ Terminals  product component removable terminal for main circuit  product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  type of connectable conductor cross-sections for main contacts  • solid  • finely stranded with core end processing  • for auxiliary contacts  — solid  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  • for AWG cables for auxiliary contacts  2x (20 14)	
mounting position  • recommended  • recommended  • recommended  • recommended  position  • recommended  position  • recommended  position  screw and snap-on mounting  position  170 mm  width  90 mm  depth  165 mm   Connections/ Terminals  product component removable terminal for main circuit  product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  type of connectable conductor cross-sections for main contacts  • solid  • finely stranded with core end processing  • for auxiliary contacts	
• 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  type of electrical connection • for main current circuit plug-in without terminals • for auxiliary and control circuit screw-type terminals  type of connectable conductor cross-sections for main contacts • solid 2x (1.5 6 mm²), 1x 10 mm²  2x (1.5 6 mm²)  type of connectable conductor cross-sections • for auxiliary contacts  - 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)	
fastening method  height  170 mm  width  90 mm  depth  165 mm   Connections/ Terminals  product component removable terminal for main circuit  product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  type of connectable conductor cross-sections for main contacts  • solid  • finely stranded with core end processing  • for auxiliary contacts  • for AWG cables for auxiliary contacts  • for AWG cables for auxiliary contacts  2x (20 14)	
height 90 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  type of electrical connection  • for main current circuit plug-in without terminals  • for auxiliary and control circuit screw-type 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)  type of connectable conductor cross-sections  • for auxiliary contacts  - 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)	
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 type of electrical connection  • for main current circuit plug-in without terminals  • for auxiliary and control circuit screw-type 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)  type of connectable conductor cross-sections  • for auxiliary contacts  - 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)	
depth  Connections/ Terminals  product component removable terminal for main circuit  product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  type of connectable conductor cross-sections for main contacts  • solid  • finely stranded with core end processing  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for AWG cables for auxiliary contacts  2x (1.5 6 mm²)  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)	
product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit  type of electrical connection	
product component removable terminal for main circuit  product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  type of connectable conductor cross-sections for main contacts  • solid  • solid  • finely stranded with core end processing  • for auxiliary contacts  • for AWG cables for auxiliary contacts  • for AWG cables for auxiliary contacts   2 yes  yes  Plug-in without terminals  2 x (1.5 6 mm²)  2 x (1.5 6 mm²), 1x 10 mm²  2 x (1.5 6 mm²)  1 x (1.5 6 mm²)  2 x (1.5 6 mm²)	
product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  type of connectable conductor cross-sections for main contacts  • solid  • solid  • finely stranded with core end processing  • for auxiliary contacts  • for auxiliary contacts  — solid  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  2x (1.5 6 mm²)  2x (1.5 6 mm²)  2x (1.5 6 mm²)  2x (1.5 6 mm²)  • for AWG cables for auxiliary contacts  2x (0.5 2.5 mm²)  2x (0.5 2.5 mm²)  2x (0.5 1.5 mm²)	
product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections for main contacts • solid • solid • finely stranded with core end processing  • for auxiliary contacts  • for auxiliary contacts  - solid - finely stranded with core end processing  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)	
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>solid</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>0.5 4 mm², 2x (0.5 2.5 mm²)</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>2x (20 14)</li> </ul>	
● for auxiliary and control circuit  type of connectable conductor cross-sections for main contacts     ● solid     ● solid     ● finely stranded with core end processing     type of connectable conductor cross-sections     ● for auxiliary contacts	
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)  type of connectable conductor cross-sections  • for auxiliary contacts  — solid  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  2x (1.5 6 mm²)  2x (1.5 6 mm²)  2x (1.5 6 mm²)  2x (1.5 6 mm²)  4x (0.5 2.5 mm²)  0.5 2.5 mm², 2x (0.5 2.5 mm²)  2x (20 14)	
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)  type of connectable conductor cross-sections  • for auxiliary contacts  — solid  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  2x (1.5 6 mm²)  2x (1.5 6 mm²)  2x (1.5 6 mm²)  2x (1.5 6 mm²)  4x (0.5 2.5 mm²)  0.5 2.5 mm², 2x (0.5 2.5 mm²)  2x (20 14)	
<ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>2x (1.5 6 mm²)</li> <li>2x (1.5 6 mm²)</li> <li>0.5 4 mm², 2x (0.5 2.5 mm²)</li> <li>0.5 2.5 mm², 2x (0.5 1.5 mm²)</li> <li>2x (20 14)</li> </ul>	
<ul> <li>◆ finely stranded with core end processing</li> <li>2x (1.5 6 mm²)</li> <li>type of connectable conductor cross-sections</li> <li>◆ for auxiliary contacts</li> <li>— solid</li> <li>— finely stranded with core end processing</li> <li>◆ for AWG cables for auxiliary contacts</li> <li>2x (1.5 6 mm²)</li> <li>0.5 4 mm², 2x (0.5 2.5 mm²)</li> <li>0.5 2.5 mm², 2x (0.5 1.5 mm²)</li> <li>2x (20 14)</li> </ul>	
type of connectable conductor cross-sections  • for auxiliary contacts  — solid  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  2x (20 14)	
<ul> <li>for auxiliary contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>for AWG cables for auxiliary contacts</li> <li>0.5 4 mm², 2x (0.5 2.5 mm²)</li> <li>0.5 2.5 mm², 2x (0.5 1.5 mm²)</li> <li>2x (20 14)</li> </ul>	
<ul> <li>— solid</li> <li>— finely stranded with core end processing</li> <li>• for AWG cables for auxiliary contacts</li> <li>0.5 4 mm², 2x (0.5 2.5 mm²)</li> <li>0.5 2.5 mm², 2x (0.5 1.5 mm²)</li> <li>2x (20 14)</li> </ul>	
<ul> <li>— finely stranded with core end processing</li> <li>• for AWG cables for auxiliary contacts</li> <li>0.5 2.5 mm², 2x (0.5 1.5 mm²)</li> <li>2x (20 14)</li> </ul>	
• for AWG cables for auxiliary contacts 2x (20 14)	
Safety related data	
proportion of dangerous failures	
• with low demand rate according to SN 31920 40 %	
failure rate [FIT] with low demand rate according to SN 100 FIT	
31920  B40 value with high demand rate according to SN 24020 2 000 000	
B10 value with high demand rate according to SN 31920 3 000 000	
T1 value for proof test interval or service life according to IEC 61508	
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	
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	
<ul> <li>due to conductor-conductor surge according to IEC</li> <li>61000-4-5</li> <li>2 kV main contacts, 1 kV auxiliary contacts</li> </ul>	
• due to high-frequency radiation according to IEC 61000- 4-6	
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
Approvals Certificates	

**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** 

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=3RA6250-1BP33

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6250-1BP33

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-1BP33

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

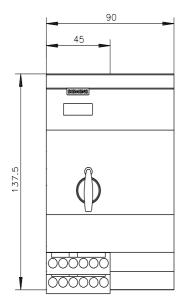
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA6250-1BP33&lang=en

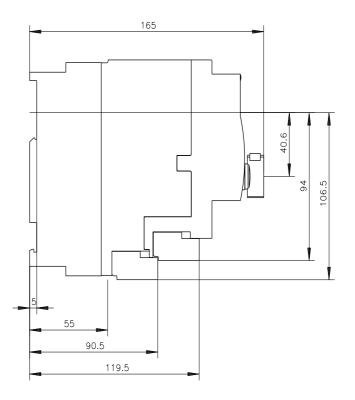
Characteristic: Tripping characteristics, I2t, Let-through current

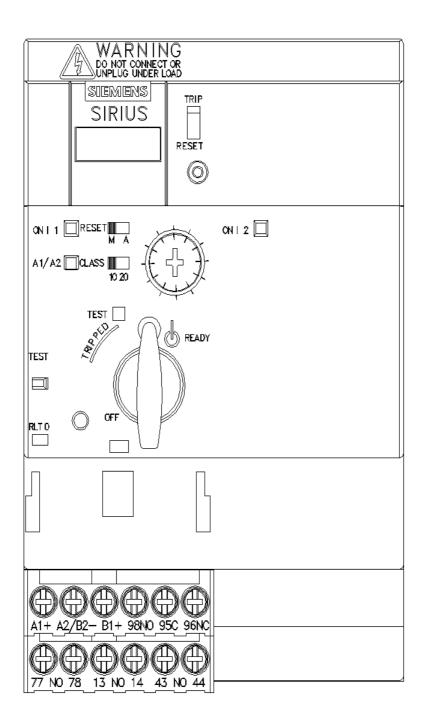
https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-1BP33/char

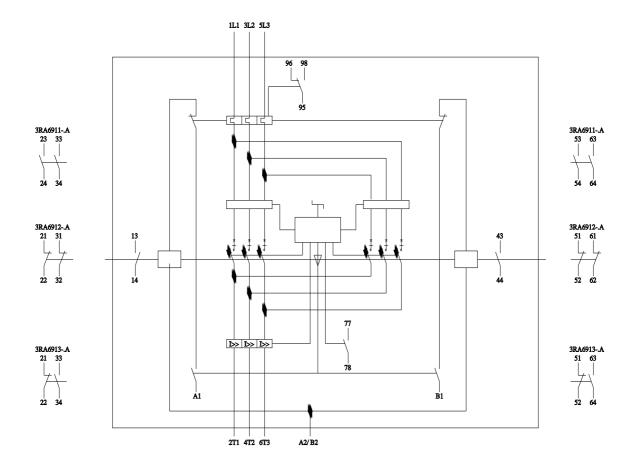
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6250-1BP33&objecttype=14&gridview=view1









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