SIEMENS

Data sheet 3RA6250-2BP33



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: Spring-type terminal

product designation design of the product product type designation 3RA62 General technical data product function control circuit interface to parallel wiring product type designation 3RA62 General technical data product function control circuit interface to parallel wiring product extension auxiliary switch Yes product extension auxiliary switch • 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 6 W Insulation voltage rated value 6 990 V degree of pollution 3 surge voltage resistance rated value • 6 900 V maximum permissible voltage for protective separation • between main and auxiliary circuit • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit • between incompact auxiliary direcuit • between control not NEMA rating other shock resistance vibration resistance f= 458 Hz, d= 15 mm; f= 5.8500 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 • at AC-15 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 • at AC-15 at 6 A at 23 V typical • at AC-15 at 6 A at 23 V typical • onlinous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Quickless of the continuous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Quickless of the continuous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Quickless of the continuous operation • during storage • during operation • during storage • during storage • during operation • during s	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 extension auxiliary switch at AC in hot operating state at AC in hot operating state pole at AC in hot operating state pole at AC in hot operating state pole without load current share typical building of pollution surge voltage resistance rated value between auxiliary circuit between main and auxiliary circuit between auxiliary and auxiliary circuit between control and suxiliary circuit between control site (operating cycles) of the main contacts typical of the main contacts typical of the main 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 volustation auxiliary alone auxiliary contacts at AC-15 at 6 A at 230 V typical continous operation according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum auxiliary and auxiliary contact auxiliary contacts auxiliary contacts auxiliary contacts auxiliary contacts auxiliary contacts typical continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient emporature during operation -20 +60 °C	product designation	compact starter
product function control circuit interface to parallel wiring product extension auxiliary switch promot 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 without load current share typical degree of pollution surge voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 690 V degree of pollution 400 V between auxiliary and auxiliary circuit between auxiliary and auxiliary circuit between auxiliary and auxiliary circuit between control and auxiliary circuit between control and auxiliary circuit check resistance 100 methods 10	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 share typical without load current share typical insulation voltage rated value degree of pollution surge voltage resistance rated value between main and auxiliary circuit between main and auxiliary circuit between ontrol and auxiliary circuit between control and auxiliary circuit between control and auxiliary circuit shock resistance feaco m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance feaco m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance feaco m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance feaco m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance feaco m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance feaco m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance feaco m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance feaco m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance feaco m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance feaco m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance feaco m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance feaco m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance feaco m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance feaco m/s2 (6g) with 10 ms per 3 shocks in all axes foaco m/s2 (6g) with 10 ms per 3 shocks in all axes foaco m/s2 (6g) with 10 ms per 3 shocks in all axes foaco m/s2 (6g) with 10 ms per 3 shocks in all axes foaco m/s2 (6g) with 10 ms per 3 shocks in all axes foaco m/s2 (6g) with 10 ms per 3 shocks in all axes foaco m/s2 (6g) with 10 ms per 3 shocks in all axes foaco m/s2 (6g) with 10 ms per 3 shocks in all axes foaco m/s2 (6g) with 10 ms per 3 shocks in all axes foaco m/s2	product type designation	3RA62
product extension auxiliary switch power loss [M] 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 3 surge voltage resistance rated value • 6000 V maximum permissible voltage for protective separation • between main and auxiliary circuit • between main and auxiliary circuit • between control and auxiliary circuit • between of protection NEMA rating other shock resistance • a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary 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 • at AC-15 at 6 A at 230 V typical vipe of assignment reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient temperature • during operation -20 +60 °C	General technical data	
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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 finalitation voltage rated value degree of pollution 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 between auxiliary circuit between auxiliary circuit between control and auxiliary circuit between auxiliary circ	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 main and auxiliary circuit between auxiliary and auxiliary circuit between control and auxiliary circuit between control and auxiliary circuit between control and suxiliary circuit a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes between control and suxiliary contacts between control and suxiliary contacts typical between control and suxiliary contacts between control and s	power loss [W] for rated value of the current	
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 400 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 (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 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 • at AC-15 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 80947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 Ambient conditions continue operation 200 m ambient temperature during operation -20 +60 °C	 at AC in hot operating state 	0.1 W
insulation voltage rated value degree of pollution surge voltage resistance rated value 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 degree of protection NEMA rating shock resistance • a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • of the signaling contacts typical • at DC-13 at 6 A at 24 V typical • at DC-13 at 6 A at 23 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical volume 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 -20 +60 °C	 at AC in hot operating state per pole 	0.03 W
degree of pollution surge voltage resistance rated value maximum permissible voltage for protective separation • between main and auxiliary circuit • between auxiliary and auxiliary circuit • 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 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 • other conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	 without load current share typical 	6 W
surge voltage resistance rated value 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 shock resistance • a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration 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 type of assignment reference code according to IEC 81346-2 Quure Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum auxiliary contacts • during operation 6 000 V 400	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 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 signalling contacts typical • of the signalling 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 • other conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	degree of pollution	3
between main and auxiliary circuit between auxiliary 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 vibration resistance fe 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 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 ontinous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) of between auxiliary circuit 250 V other 300 V degree of protection NEMA rating other a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s2 (6g) with 10 ms per 3 shocks in all axes =60 m/s	surge voltage resistance rated value	6 000 V
between auxiliary and auxiliary circuit between control and auxiliary circuit other shock resistance degree of protection NEMA rating shock resistance ibration resistance ibration resistance if = 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 of the conditions at DC-13 at 6 A at 24 V typical at AC-15 at 6 A at 230 V typical other and DC-15 at 6 A at 230 V typical continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ob/01/2012 Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation -20 +60 °C	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 contacts typical of the A C-13 at 6 A at 24 V typical of at AC-15 at 6 A at 230 V typical verification of the signal according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation other a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes a=60 m/s2 (15 m/s) as 500 m/s2 (15 m/s)	 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 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 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 -20 +60 °C	 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 cycles of auxiliary contacts of the signaling cycles of the signaling cycles of the main contacts typical of the signaling cycles of the signaling cycles of the main contacts typical of	 between control and auxiliary circuit 	300 V
vibration 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 the signaling	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 • 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 continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) os/o1/2012 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	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 of the signali	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 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 continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation -20 +60 °C 	mechanical service life (operating cycles)	
● 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 200 000 type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) O5/01/2012 Ambient conditions installation altitude at height above sea level maximum ambient temperature ● during operation 10 000 000 200 0	 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 type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) O5/01/2012 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 Q Substance Prohibitance (Date) 05/01/2012 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) Ambient conditions installation altitude at height above sea level maximum ambient temperature ● during operation 200 000 continous operation according to IEC 60947-6-2 Q 5/01/2012 Ambient conditions installation altitude at height above sea level maximum -20 +60 °C	electrical endurance (operating cycles) of auxiliary contacts	
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	• at DC-13 at 6 A at 24 V typical	30 000
reference code according to IEC 81346-2 Substance Prohibitance (Date) O5/01/2012 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) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	type of assignment	continous operation according to IEC 60947-6-2
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
installation altitude at height above sea level maximum ambient temperature ● during operation 2 000 m -20 +60 °C	Substance Prohibitance (Date)	05/01/2012
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 %	relative humidity during operation	10 90 %
Main circuit	Main circuit	
number of poles for main current circuit 3	number of poles for main current circuit	3

adjustable current response value current of the current-	0.32 1.25 A
dependent overload release	
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	
• at 400 V rated value	0.37 kW
• at 500 V rated value	0.55 kW
at 690 V rated value	0.75 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
 at AC at 400 V rated value 	1.25 A
 at AC-3 at 400 V rated value 	1.25 A
• at AC-43	
— at 400 V rated value	1.1 A
— at 500 V rated value	1.2 A
— at 690 V rated value	1.1 A
operating power	
• at AC-3 at 400 V rated value	0.37 kW
• at AC-43	
— 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	
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 (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
at 575/600 V rated value	0.5 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 requiredfor short-circuit protection of the signaling switch of the	4A gL/gG/400V
overload release required	
Installation/ mounting/ dimensions	any.
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	Vee
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	
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 ligh 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	20 a
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	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-	0.15-80Mhz at 10V
4-6 field-based interference according to IEC 61000-4-3	10 V/m
new-pased interference according to IEC \$1000-4-3	IV V/III

8 kV electrostatic discharge according to IEC 61000-4-2 150 kHz ... 30 MHz Class A conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 30 ... 1000 MHz Class A Supply voltage Supply voltage required Auxiliary voltage No Displa number of LEDs 3 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

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=3RA6250-2BP33

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6250-2BP33

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-2BP33

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

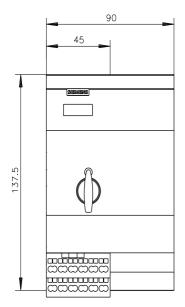
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA62

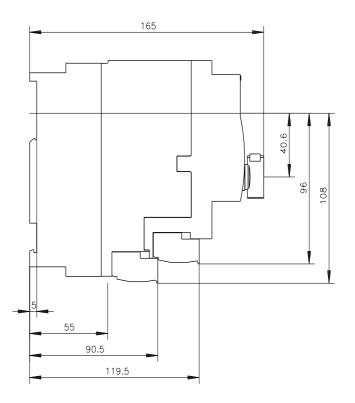
Characteristic: Tripping characteristics, I2t, Let-through current

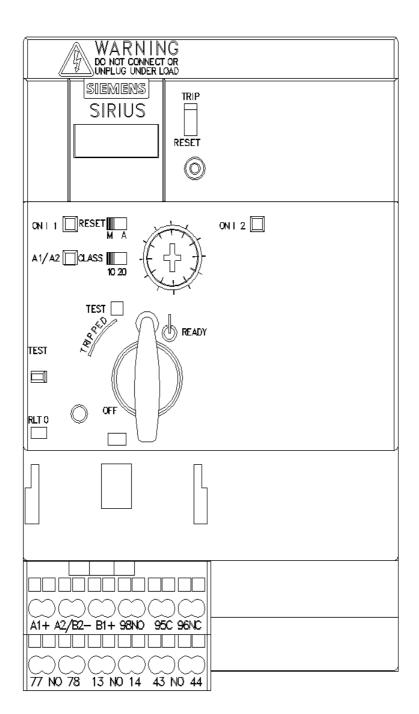
https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-2BP33/char

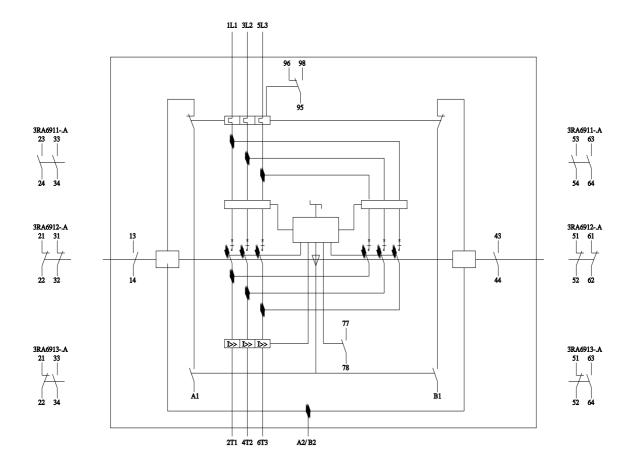
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6250-2BP33&objecttype=14&gridview=view1









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