SIEMENS

Data sheet 3RA6250-2AB33



SIRIUS Compact load feeder Reversing starter 690 V 24 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 design of the product product type designation SRA62 Concrat technical data product function 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 e • at AC in hot operating state per pole • without load current share typical degree of pollution 3 surge voltage resistance rated value degree of pollution surge voltage resistance rated value • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • between fortion the first production of the main contacts bypical • of anxiliary contacts typical • of anxiliary contacts typical • of the signaling contacts typical • of anxiliary contacts typical • of the signaling contacts typical • of the signaling contacts typical • of anxiliary contacts typical • of the signaling contacts typical • of anxiliary contacts typical • of the signaling	product brand name	SIRIUS
product type designation 3RA62 General 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 per pole • without load current share typical 2.9 W insulation voltage rated value 6890 V degree of pollution 3 surge voltage resistance rated value maximum permissible voltage for protective separation • between main 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 200 000 • of the signaling contacts typical 30 000 • at AC-15 at 6 A at 24 V typical 200 000 • at AC-15 at 6 A at 230 V typical 200 000 Substance Prohibitance (Date) 567/2012 SUbstance Prohibitance (Date) 567/2012 SVHC substance name 1cel feel shade-2 Q Substance Prohibitance (Date) 567/2012 Weight 2.475 kg Ambient conditions installation allitude at height above sea level maximum 200 mm ambient temperature • during operation -200 +60 °C	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 0.01 W without load current share typical 2.9 W Insulation voltage rated value 690 V degree of pollution surge voltage resistance rated value 6000 V maximum permissible voltage for protective separation between main and auxiliary circuit 400 V between main and auxiliary circuit 250 V between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance as a 60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance fa 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 10 000 000 of auxiliary contacts typical 200 000 vibre of assignment reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 50 0501/2012 SVHC substance name Lead - 7439-92-1 Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12628-81-2 Weight 2-475 kg Ambient conditions Installation altitude at height above sea level maximum 2 0 um about 10 uring operation conditions Installation altitude at height above sea level maximum 2 0 um - 40 uring operation conditions Installation altitude at height above sea level maximum 2 0 um - 40 uring operation conditions Installation altitude at height above sea level maximum 2 0 um - 40 uring operation conditions	design of the product	reversing starter
product function control circuit interface to parallel wiring 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 • at AC in hot operating state per pole • without load current share typical surge voltage rated value degree of pollution 3 surge voltage resistance rated value 690 V degree of pollution 3 surge voltage resistance rated value 6000 V maximum permissible voltage for protective separation • between auxiliary 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 200 000 ype of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 50501/2012 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead thanium zirconium oxide - 12626-81-2 Weight 2.475 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation -20 +60 °C	product type designation	3RA62
product extension auxiliary switch power loss IW] for rated value of the current • at AC in hot operating state 0.01 W • without load current share typical 2.9 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 0ther shock resistance =60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance =60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance =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 • at DC-13 at 6 A at 24 V typical 200 000 type of assignment continous operation according to IEC 60947-6-2 Treference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/1/2012 SVHC substance name Lead -7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight 2.475 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	General technical data	
power loss [W] for rated value of the current at AC in hot operating state 0.0.1 W at AC in hot operating state pole without load current share typical 2.9 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 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 = a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance = 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 electrical endurance (operating cycles) of auxiliary contacts at CC-13 at 6 A at 24 V typical 30 000 at AC-15 at 6 A at 24 V typical 200 000 type of assignment continuous operation according to IEC 60947-6-2 Teference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight 2.475 kg Ambient conditions installation altitude at height above sea level maximum 200 mm about temperature oduring operation -20 +60 °C	product function control circuit interface to parallel wiring	Yes
at AC in hot operating state per pole at AC in hot operating state per pole without load current share typical without load current share typical surge voltage read value degree of pollution surge voltage resistance 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 between auxiliary and auxiliary circuit between auxiliary 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 wibration 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 10 000 000 of the signaling contacts typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts of the AC-15 at 6 A at 240 typical 200 000 type of assignment reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead transmitted at height above sea level maximum 2 000 m anibient temperature of during operation 2 000 m ambient temperature of during operation -20 +60 °C	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 above the week main and auxiliary circuit between main and auxiliary circuit between auxiliary and auxiliary circuit between control and auxiliary a	power loss [W] for rated value of the current	
without load current share typical insulation voltage rated value 690 V	 at AC in hot operating state 	0.01 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 of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance	 at AC in hot operating state per pole 	0.01 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 • between control and auxiliary circuit degree of protection NEMA rating shock resistance 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 lectrical 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 • other according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7433-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead insulmur zirconium oxide - 12626-81-2 Weight Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	without load current share typical	2.9 W
surge voltage resistance rated value maximum permissible voltage for protective separation • between amain and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes • wibration 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 • 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 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) SVHC substance name Lead -7439-92-1 Lead -7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	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 the signaling contacts typical • of the signaling contacts typical • of the Contact of 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 6 A at 230 V typical • ontinous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead ittanium zirconium oxide - 12626-81-2 Weight Ambient 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 obetween control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance ibration resistance ibration resistance of = 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 main	surge voltage resistance rated value	6 000 V
between auxiliary and auxiliary circuit between control and auxiliary circuit between control and auxiliary circuit shock resistance shock resistance shock 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	maximum permissible voltage for protective separation	
between control and auxiliary circuit degree of protection NEMA rating shock resistance 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 auxiliary contacts of the signaling contacts typical of auxiliary contacts of the signaling contacts typical of auxiliary contacts of the signaling contacts typical of the signaling contacts of the signaling contacts typical of the signaling contac	 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 co	 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 • 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 At 230 V typical verterence code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight Ambient conditions installation altitude at height above sea level maximum • during operation -20 +60 °C	between control and auxiliary circuit	300 V
vibration resistance 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 continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Quality of assignment reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead -7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	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 • ontinous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight 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 signaline contacts typical of the signaline contacts typical of the signali	vibration resistance	f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s ² ; 10 cycles
of auxiliary contacts typical of the signaling contacts typical lo 000 000 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 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight Ambient conditions installation altitude at height above sea level maximum ambient temperature o 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 • 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) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	 of the main contacts typical 	10 000 000
electrical endurance (operating cycles) of auxiliary contacts • at DC-13 at 6 A at 24 V typical • at AC-15 at 6 A at 230 V typical 200 000 type of assignment reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	 of auxiliary contacts typical 	10 000 000
 at DC-13 at 6 A at 24 V typical at AC-15 at 6 A at 230 V typical 200 000 type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight 2.475 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation -20 +60 °C 	of the signaling contacts typical	10 000 000
● at AC-15 at 6 A at 230 V typical type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight 2.475 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature ● during operation -20 +60 °C	electrical endurance (operating cycles) of auxiliary contacts	
type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 5VHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight 2.475 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation continous operation according to IEC 60947-6-2 Q 2000 m 2000 m	• 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 Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight 2.475 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	• at AC-15 at 6 A at 230 V typical	200 000
Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight 2.475 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation 05/01/2012 Lead - 7439-92-1 Lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 2.475 kg -20 +60 °C	type of assignment	continous operation according to IEC 60947-6-2
SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight 2.475 kg 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
Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight 2.475 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 2.475 kg 2.000 m -20 +60 °C	Substance Prohibitance (Date)	05/01/2012
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8
installation altitude at height above sea level maximum ambient temperature ● during operation 2 000 m -20 +60 °C	Weight	2.475 kg
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
·· U·····U·	during storage	-55 +80 °C
• during transport -55 +80 °C	during transport	-55 +80 °C

relative humidity during operation	10 90 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-	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	24 V
● at 50 Hz	24 24 V
at 60 Hz rated value	24 V
● at 60 Hz	24 V
control supply voltage frequency	
• 1 rated value	50 Hz
2 rated value	60 Hz
control supply voltage 1 at DC rated value	24 V
control supply voltage 1 at DC	24 24 V
holding power	
at AC maximum	2.8 W
at DC maximum	2.9 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 rated value	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	

a at 490 \/ rated value	0.4.6
 at 480 V rated value at 600 V rated value 	0.4 A 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,
Sometiment of auxiliary contacts according to or	contacts 21-22, 13-14, 43-44 Q000 / A000, contacts 77-76 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
mounting position 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	Yes
control circuit	
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	
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	50 %
B10 value with high demand rate according to SN 31920	3 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
IEC 61508	
T1 value for proof test interval or service life according to IEC 61508	20 a
Electrical Safety	
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 burst according to IEC 61000-4-4 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
Approvals Certificates	
General Product Approval	







Confirmation





EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







other **Dangerous goods Environment**

Confirmation **Transport Information**

Environmental Confirmations

Further information

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=3RA6250-2AB33

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6250-2AB33

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-2AB33

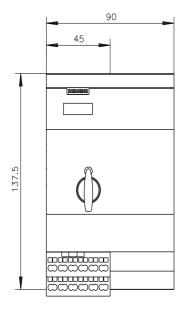
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

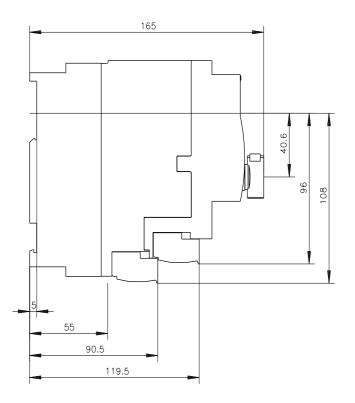
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6250-2AB33&lang=en

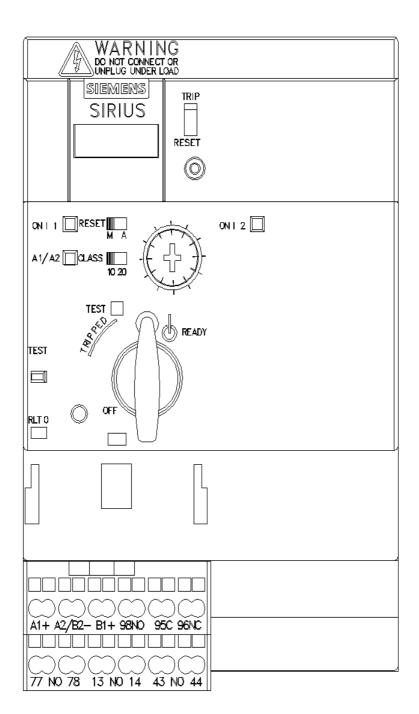
Characteristic: Tripping characteristics, I2t, Let-through current

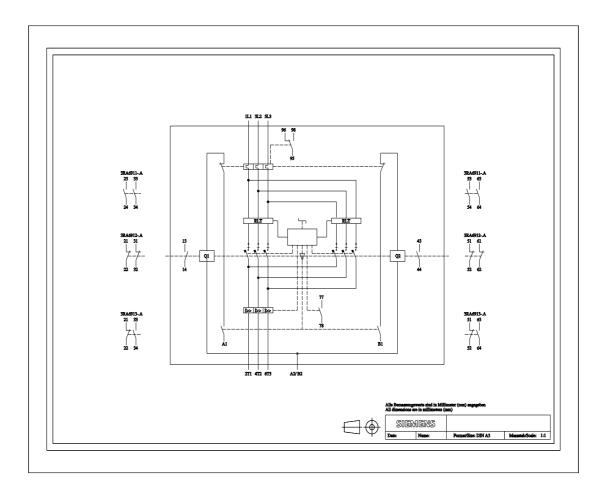
https://support.industry.siemens.com/cs/ww/en/ps/3RA62

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6250-2AB33&objecttype=14&gridview=view1









last modified: 3/11/2024 🖸