SIEMENS

Data sheet

3RA6250-2AP32



SIRIUS Compact load feeder Reversing starter 690 V 110...240 V AC/DC 50...60 Hz 0.1...0.4 A IP20 Connection main circuit: Spring-type terminal Connection control circuit: Spring-type terminal

product function control circuit interface to parallel wiring Yes product extension auxiliary switch Yes power loss [W] for rated value of the current 0.01 W • at AC in hot operating state 0.01 W • at AC in hot operating state per pole 0.01 W • without bad current share typical 600 V degree of pollution 3 surge voltage resistance rated value 600 V • between main and auxiliary circuit 400 V • between num 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 fe 4 5.8 Hz, d= 15 mm; fe 5.8 500 Hz, a= 20 m/s ⁿ ; 10 cycles mechanical service life (operating cycles) 10 000 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 30 000 • at DC-13 at 6 A at 24 V typical 30 000 • at DC-13 at 6 A at 24 V typical 200 000 vibration attitude at height above sea level maximum 2 000 m adbettree robibitance (Date 96/01/2012 uing operation 2 000 m ambient temporature 200 m ambient temporature 2 0	4.4	
design of the product reversing starter product type designation 3RA62 beneral technical data	product brand name	SIRIUS
product type designation 3RA62 Seneral technical data	product designation	compact starter
Ameral technical data Yes product tunction control circuit interface to parallel wiring Yes product extension auxiliary switch Yes e at AC in hot operating state 0.01 W • at AC in hot operating state per pole 0.01 W • without load current share typical 6 W insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6 000 V maximum permissible voltage for protective separation 6 • between main and auxiliary circuit 200 V • between main and auxiliary circuit 200 V • between ontrol and auxiliary circuit 200 V • at DC-13 at 6 A at 20 V typical 10 000 000 • of auxiliary contacts typical 10 000 000 • at	design of the product	reversing starter
product function control circuit interface to parallel wiring Yes product extension auxiliary switch Yes power loss [W] for rated value of the current 0.01 W • at AC in hot operating state 0.01 W • at AC in hot operating state prole 0.01 W • without load current share typical 6W Insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6000 V maximum permissible voltage for protective separation 400 V • between main and auxiliary circuit 250 V • between control and auxiliary circuit 200 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 fe 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 200 000 • of the signaling contacts typical 200 000 • at AC-15 at 6 A at 230 V typical 200 000 • at AC-	product type designation	3RA62
product extension auxiliary switch Yes power loss [W] for rated value of the current	General technical data	
power loss [W] for rated value of the current at AC in hot operating state 0.01 W at AC in hot operating state propel 0.01 W at AC in hot operating state propel 0.01 W att AC in hot operating state propel 0.01 W att AC in hot operating state propel 0.01 W att AC in hot operating state propel 0.01 W attraction voltage rated value 600 V degree of pollution 3 surge voltage resistance rated value 600 V between main and auxiliary circuit between auxiliary and auxiliary circuit 250 V between control and auxiliary circuit 250 V between control and auxiliary circuit 300 V degree of protection NEM rating other shock resistance f 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s², 10 cycles mechanical service life (operating cycles) of the main contacts typical	product function control circuit interface to parallel wiring	Yes
• at AC in hot operating state0.01 W• at AC in hot operating state per pole0.01 W• without load current share typical6 Winsulation voltage rated value690 Vdegree of pollution3surge voltage resistance rated value600 Vmaximum permissible voltage for protective separation400 V• between nain and auxiliary circuit400 V• between control and auxiliary circuit300 V• of the signaling contacts typical10 000 000• of the main contacts typical10 000 000• of the signaling contacts typical30 000• at DC-13 at 6 A at 24 V typical200 000• at DC-13 at 6 A at 230 V typical200 000• at Cc-15 at 6 A at 230 V typical200 000• between control to EC 81346-2Q• aubint conditions	product extension auxiliary switch	Yes
• at AC in hot operating state per pole 0.01 W • without load current share typical 6 W insulation voltage rated value 600 V degree of polution 3 surge voltage resistance rated value 6 000 V maximum permissible voltage for protective separation 6 000 V • between main and auxiliary circuit 250 V • between control and auxiliary circuit 250 V • between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance f=4 5.8 Hz, d= 15 mm, f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) 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 • of the signaling contacts typical 200 000 • other sistence continuous operation according to IEC 60947-6-2 • at AC-15 at 6 A at 24 V typical 30 000 • at AC-15 at 6 A at 230 V typical 200 00 type of assignment continuous operation according to IEC 60947-6-2 • during operation 200 m • ambient temperature 200 m • during storage -56 +60 °C • during operation -20 +	power loss [W] for rated value of the current	
• without load current share typical6 Winsulation voltage rated value690 Vdegree of pollution3surge voltage resistance rated value6 000 V• between main and auxiliary circuit400 V• between auxiliary circuit250 V• between auxiliary circuit300 Vdegree of protection and auxiliary circuit300 Vdegree of protection NEMA ratingothershock resistancea=60 m/s2 (6g) with 10 ms per 3 shocks in all axesvibration resistancef = 4 5.8 Hz, d = 15 mm; f = 5.8 500 Hz, a = 20 m/s ² ; 10 cyclesmechanical service life (operating cycles)10 000 000• of the main contacts typical10 000 000• of the signaling contacts typical30 000• at DC-13 at 6 A at 24 V typical30 000• at DC-13 at 6 A at 230 V typical200 000type of assignmentcontinous operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)200 mambient temperature-20 +60 °C• during operation-20 +60 °C• during transport-20	 at AC in hot operating state 	0.01 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 6 • between main and auxiliary circuit 250 V • between auxiliary and auxiliary circuit 300 V • between control and auxiliary circuit 300 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 fe 4 5.8 Hz, d= 15 mm; fe 5.8 500 Hz, a= 20 m/s ² ; 10 cycles • of auxiliary contacts typical 10 000 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 30 000 • of the signaling contacts typical 30 000 • 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 mibent temperature	 at AC in hot operating state per pole 	0.01 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 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/s ² ; 10 cycles mechanical service life (operating cycles) f • of the main contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 30 000 • of the cortacts typical 200 000 • at DC-13 at 6 A at 24 V typical 200 000 • at AC-15 at 6 A at 230 V typical 200 000 • at AC-15 at 6 ha at 24 V typical 30 000 • at AC-15 at 6 ha te 24 V typical 200 000 • at AC-15 at 6 ha te 24 V typical 200 000 • at AC-15 at 6 ha te 24 V typical 200 000 uing operation C	 without load current share typical 	6 W
surge voltage resistance rated value 6 000 V maximum permissible voltage for protective separation 400 V • 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) 0000 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 200 000 • 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 misellation attitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20	insulation voltage rated value	690 V
maximum permissible voltage for protective separation 400 V • 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 fe 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s², 10 cycles mechanical service life (operating cycles) fe 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s², 10 cycles of the main contacts typical 10 000 000 10 000 000 of auxiliary contacts typical 10 000 000 10 000 000 of the signaling contacts typical 10 000 000 10 000 000 of the signaling contacts typical 200 000 10 000 000 ot the code according to IEC 81346-2 Q Q Substance Prohibitance (Date) 05/01/2012 05/01/2012 mbient conditions 2000 m ambient temperature oturing torage -20	degree of pollution	3
• between main and auxiliary circuit400 V• between control and auxiliary circuit250 V• between control and auxiliary circuit300 Vdegree of protection NEMA ratingothershock resistancea=60 m/s2 (6g) with 10 ms per 3 shocks in all axesvibration resistancef= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s ² ; 10 cyclesmechanical service life (operating cycles)10 000 000• of the main contacts typical10 000 000• of the signaling contacts typical10 000 000• of the signaling contacts typical300 000• at DC-13 at 6 A at 24 V typical300 000• at AC-15 at 6 A at 230 V typical200 000type of assignmentcontinuos operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012mishelit temperature-• during operation-20 +60 °C• during storage-55 +80 °C• during storage-55 +80 °C• during storage-55 +80 °C• during turnsport-55 +80 °C• telteve humidity during operation05 +80 °C• telteve humidity during operation-55 +80 °C• telteve humidity during operati	surge voltage resistance rated value	6 000 V
• between auxiliary and auxiliary circuit250 V• between control and auxiliary circuit300 Vdegree of protection NEMA ratingothershock resistancea=60 m/s2 (6g) with 10 ms per 3 shocks in all axesvibration resistancef=4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cyclesmechanical service life (operating cycles)10 000 000of the main contacts typical10 000 000of the signaling contacts typical10 000 000of the signaling contacts typical10 000 000of the signaling contacts typical200 000electrical endurance (operating cycles) of auxiliary contacts200 000et at C-15 at 6 A at 230 V typical200 000et at C-15 at 6 A at 230 V typical05/01/2012upbent conditions05/01/2012mistallation altitude at height above sea level maximum2.000 mambient temperature-20 +60 °Cof during torage-55 +80 °Cof during torage-55 +80 °Cof during torage-55 +80 °Cof uning torage-55 +80 °Cenduring transport10 90 %	maximum permissible voltage for protective separation	
• between control and auxiliary circuit300 Vdegree of protection NEMA ratingothershock resistancea=60 m/s2 (6g) with 10 ms per 3 shocks in all axesvibration resistancef = 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cyclesmechanical service life (operating cycles)• of the main contacts typical10 000 000• of the signaling contacts typical10 000 000• of the signaling contacts typical30 000• of the signaling contacts typical30 000• of the signaling contacts typical30 000• at DC-13 at 6 A at 24 V typical30 000• at AC-15 at 6 A at 230 V typical200 000• type of assignmentcontinuos operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)2 000 mambient temperature2 000 m• during operation-20 +60 °C• during storage-55 +80 °C• during torage-55 +80 °C• turing operation-20 +60 °C• during transport-55 +80 °C• turing operation-55 +80 °C• turing transport-55 +80 °C• turing transport-55 +80 °C• turing transport-55 +80 °C• turing transport-55 +80 °C	 between main and auxiliary circuit 	400 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/s ² ; 10 cycles mechanical service life (operating cycles) i 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 Adv 24 V typical 30 000 at DC-13 at 6 A at 24 V typical 200 000 etcricial endurance (operating cycles) of auxiliary contacts continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 mistallation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C oturing transport -25 +80 °C oturing transport -55 +80 °C relative humidity during operation 10 90 %	 between auxiliary and auxiliary circuit 	250 V
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/s ² ; 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 • of the signaling contacts typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts 30 000 • at DC-13 at 6 A at 24 V typical 200 000 • at AC-15 at 6 A at 230 V typical 200 000 type of assignment continuous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 unbient conditions 2000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during transport -55 +80 °C • during transport -55 +80 °C • during transport 10 90 %	 between control and auxiliary circuit 	300 V
vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s ² ; 10 cycles mechanical service life (operating cycles) 0 000 000 o of the main contacts typical 10 000 000 o of the signaling contacts typical 10 000 000 o of the signaling contacts typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts 30 000 o at AC-15 at 6 A at 24 V typical 30 000 o 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 umbient conditions 2 000 m ambient temperature -20 +60 °C o during operation -20 +60 °C o during transport -55 +80 °C relative humidity during operation -55 +80 °C e during transport -55 +80 °C	degree of protection NEMA rating	other
mechanical service life (operating cycles) 10 000 000 • 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 • electrical endurance (operating cycles) of auxiliary contacts 30 000 • 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 mbient conditions 2 000 m ambient temperature - • during operation -20 +60 °C • during transport -55 +80 °C • during transport -90 %	shock resistance	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes
• of the main contacts typical10 000 000• of auxiliary contacts typical10 000 000• of the signaling contacts typical10 000 000• at DC-13 at 6 A at 24 V typical30 000• at AC-15 at 6 A at 230 V typical200 000• at AC-15 at 6 A at 230 V typicalcontinous operation according to IEC 60947-6-2• reference code according to IEC 81346-2QSubstance Prohibitance (Date)00 00• mbient conditions2 000 m• athirt conditions2 000 m• during operation-20 +60 °C• during storage-55 +80 °C• during transport-55 +80 °C• during transport10 90 %• tan circuit-	vibration resistance	f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles
• of auxiliary contacts typical10 000 000• of the signaling contacts typical10 000 000• at DC-13 at 6 A at 24 V typical30 000• at DC-15 at 6 A at 230 V typical200 000• at AC-15 at 6 A at 230 V typical0 continous operation according to IEC 60947-6-2• at AC-15 at 6 A at 230 V typical0 000• at AC-15 at 6 A at 230 V typical0 continous operation according to IEC 60947-6-2• at AC-15 at 6 A at 230 V typical0 000• at AC-15 at 6 A at 230 V typical0 000• at AC-15 at 6 A at 230 V typical0 000• at AC-15 at 6 A at 230 V typical0 000• at AC-15 at 6 A at 230 V typical0 000• at AC-15 at 6 A at 230 V typical0 000• at AC-15 at 6 A at 230 V typical0 000• at AC-15 at 6 A at 230 V typical0 000• at AC-15 at 6 A at 230 V typical0 000• at AC-15 at 6 A at 230 V typical0 000• at AC-15 at 6 A at 230 V typical0 000• at AC-15 at 6 A at 230 V typical2 000 m• at AC-15 at height above sea level maximum2 000 m• athing operation-20 +60 °C• during operation-25 +80 °C• during transport-55 +80 °C• during transport-55 +80 °C• relative humidity during operation10 90 %• tatic ticcuit• 0000 %	mechanical service life (operating cycles)	
• of the signaling contacts typical10 000 000electrical endurance (operating cycles) of auxiliary contacts30 000• at DC-13 at 6 A at 24 V typical30 000• at AC-15 at 6 A at 230 V typical200 000type of assignmentcontinous operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012mbient conditions2 000 mambient temperature2 000 m• during operation-20 +60 °C• during storage-55 +80 °C• during transport-55 +80 °Crelative humidity during operation10 90 %	 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 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 q Substance Prohibitance (Date) 05/01/2012 mbient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature during operation -20 +60 °C -55 +80 °C relative humidity during operation 10 90 % 	 of auxiliary contacts typical 	10 000 000
• at DC-13 at 6 A at 24 V typical30 000• at AC-15 at 6 A at 230 V typical200 000type of assignmentcontinous operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012unbient conditions2 000 mambient temperature2 000 m• during operation-20 +60 °C• during storage-55 +80 °C• during transport-55 +80 °Crelative humidity during operation10 90 %	 of the signaling contacts typical 	10 000 000
• at AC-15 at 6 A at 230 V typical200 000type of assignmentcontinous operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Installation altitude at height above sea level maximum2 000 mambient conditions	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 mbient conditions 2 000 m ambient temperature -20 +60 °C • during operation -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 %	 at DC-13 at 6 A at 24 V typical 	30 000
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 mbient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 %	 at AC-15 at 6 A at 230 V typical 	200 000
Substance Prohibitance (Date) 05/01/2012 umbient conditions 2 000 m ambient temperature 2 000 m • during operation -20 +60 °C • during storage -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 %	type of assignment	continous operation according to IEC 60947-6-2
Imbient conditions 2 000 m Installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 %	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum 2 000 m ambient temperature during operation -20 +60 °C during storage -55 +80 °C e during transport -55 +80 °C relative humidity during operation 10 90 %	Substance Prohibitance (Date)	05/01/2012
ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 %	Ambient conditions	
• during operation -20 +60 °C • during storage -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 %	installation altitude at height above sea level maximum	2 000 m
• during storage -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 % lain circuit	ambient temperature	
• during transport • for a sport • during transport relative humidity during operation 10 90 % fain circuit	during operation	-20 +60 °C
relative humidity during operation 10 90 % lain circuit	during storage	-55 +80 °C
lain circuit	during transport	-55 +80 °C
	relative humidity during operation	10 90 %
number of poles for main current circuit 3	Main circuit	
	number of poles for main current circuit	3

adjustable current response value current of the current- dependent overload release	0.1 0.4 A
formula for making capacity limit current	120 x le
formula for limit current breaking capacity	100 x le
yielded mechanical performance for 4-pole AC motor	
• at 400 V rated value	0.09 kW
• at 500 V rated value	0.12 kW
• at 690 V rated value	0.18 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
at AC at 400 V rated value	0.4 A
 at AC-3 at 400 V rated value 	0.4 A
• at AC-43	
— at 400 V rated value	0.3 A
— at 500 V rated value	0.32 A
— at 690 V rated value	0.35 A
operating power	
• at AC-3 at 400 V rated value	0.09 kW
• at AC-43	
— at 400 V rated value	90 W
— at 500 V rated value	120 W
— at 690 V rated value	180 W
no-load switching frequency	3 600 1/h
operating frequency	
• at AC-41 according to IEC 60947-6-2 maximum	750 1/h
 at AC-43 according to IEC 60947-6-2 maximum 	250 1/h
Control circuit/ Control	
type of voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz rated value	240 V
• at 50 Hz	110 240 V
• at 60 Hz	110 240 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage 1	
• at DC rated value	240 V
• at DC	110 240 V
holding power	
• at AC maximum	6 W
• at DC maximum	5.1 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	2
number of NO contacts of instantaneous short-circuit trip unit for signaling contact	1
number of CO contacts of the current-dependent overload release for signaling contact	1
operational current of auxiliary contacts at AC-12 maximum	10 A
operational current of auxiliary contacts at DC-13 at 250 V	0.27 A
Protective and monitoring functions	
trip class	CLASS 10 and 20 adjustable
operating short-circuit current breaking capacity (Ics)	
• at 400 V	53 kA
• at 500 V rated value	3 kA
• at 690 V rated value	3 kA
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.4 A
• at 600 V rated value	0.4 A
contact rating of auxiliary contacts according to UL	contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 77-78 R300 / B300,
	contacts 95-96-98 R300 / D300

Short-circuit protection	
product function short circuit protection	Yes
design of short-circuit protection	electromagnetic
design of the fuse link	
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
 for short-circuit protection of the signaling switch of the short-circuit release required 	6A gL/gG/400V
 for short-circuit protection of the signaling switch of the overload release required 	4A gL/gG/400V
Installation/ mounting/ dimensions	
mounting position	any
recommended	vertical, on horizontal standard DIN rail
fastening method	screw and snap-on mounting
height	191 mm
width	90 mm
depth	165 mm
Connections/ Terminals	
product component removable terminal for main circuit	Yes
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
for main current circuit	spring-loaded 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 mm ²)
 finely stranded with our end processing finely stranded without core end processing 	2x (1.5 6 mm ²)
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 mm ²)
 finely stranded with core end processing finely stranded without core end processing 	2x (0.25 1.5 mm ²)
 for AWG cables for auxiliary contacts 	2x (0.25 15 mm) 2x (24 16)
Safety related data	ZX (Z4 10)
B10 value with high demand rate according to SN 31920	3 000 000
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	50 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe
Communication/ Protocol	
product function bus communication	No
protocol is supported	
AS-Interface protocol	No
IO-Link protocol	No
product function control circuit interface with IO link	No
Electromagnetic compatibility	
conducted interference	
due to burst according to IEC 61000-4-4	4 kV main contacts, 2 kV auxiliary contacts
 due to balact decording to IEC 01000 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 A	Auxiliary voltage	No					
Display							
number of LEDs		3					
Certificates/ approvals	_						
General Product Approva	al			EMC	Functional Safety/Safety of Ma- chinery		
<u>Confirmation</u>			EHC	RCM			
Declaration of Conformity	у	Test Certificates	Marine / Shipping				
UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	ABS		Lloyd's Register		
Marine / Shipping		other	Dangerous Good				
PRS	RINA	<u>Confirmation</u>	Transport Information				
Further information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business							
Siemens is working on the Please contact your local S EAC relevant market (other	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=3RA6250-2AP32

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6250-2AP32

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-2AP32

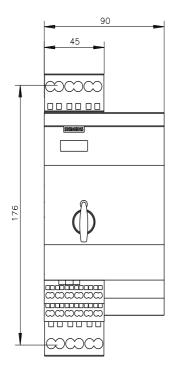
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

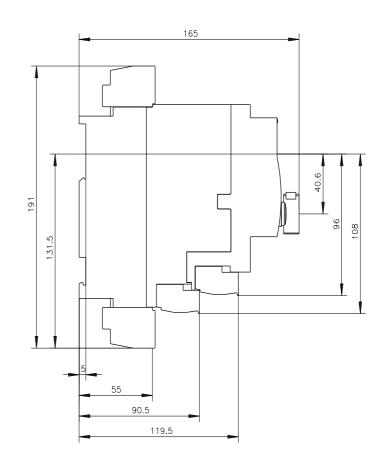
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6250-2AP32&lang=en

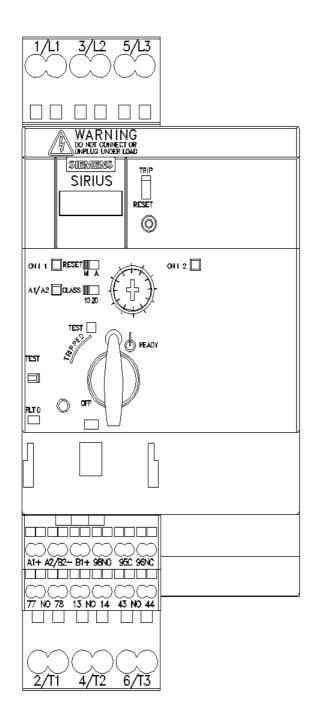
Characteristic: Tripping characteristics, I2t, Let-through current

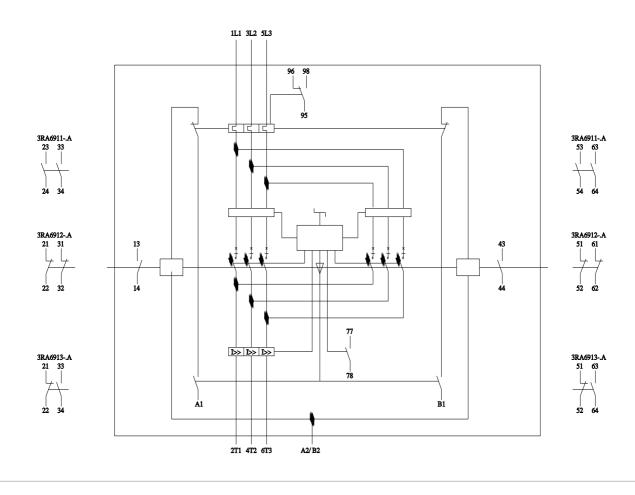
https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-2AP32/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6250-2AP32&objecttype=14&gridview=view1









last modified:

11/21/2022 🖸