SIEMENS

Data sheet 3RA6120-1BP33



SIRIUS Compact load feeder DOL 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 auxiliary circuit: screw terminal

product designation design of the product design of the product product type designation SRA61 General technical data product function control circuit interface to parallel wiring product type designation Yes product extension auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state evalue of the current • at AC in hot operating state per pole • without load current share typical insulation voltage rated value degree of pollution 3 surge voltage resistance rated value • degree of pollution 3 surge voltage resistance rated value • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • and the control of the signaling contacts typical • of auxiliary contacts typical •	product brand name	SIRIUS
design of the product product type designation 37A61 General technical data product function control circuit interface to parallel wirring product extension auxiliary swritch 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 • without load current share typical • between of pollution • between main and auxiliary circuit • between main and auxiliary circuit • between main and auxiliary circuit • between control and auxiliary circuit • between ortrol and auxiliary circuit • between of protection NEMA rating shock resistance mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of the signaling contacts typical • of the	product designation	compact starter
General technical data product function control circuit interface to parallel wiring product extension auxiliary switch power loss [W] for rated value of the current at AC in hot operating state 0.1 W at AC in hot operating state pope 0.033 W without load current share typical 6 W insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6000 V maximum permissible voltage for protective separation between main and auxiliary circuit 400 V between auxiliary and auxiliary circuit 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) of the main contacts typical 10 000 000 of auxiliary contacts typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts at AC-15 at 6 A at 24 V typical 200 000 type of assignment contacts and explained auxiliary contacts at AC-15 at 6 A at 24 V typical 200 000 SVHC substance name Bieli- 7439-92-1 Bielimonoxid (Bleioxid) - 1317-36-8 Bielitlanzirkonoxid - 12626-81-2 2'2',6,6" Tetrabrom-4,4" isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum 20 0 +60 °C	design of the product	direct starter
product function control circuit interface to parallel wiring product extension auxillary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • without load current share typical insulation voltage rated value degree of pollution 3 surge voltage resistance rated value • between of pollution surge voltage resistance rated value • between amain and auxiliary circuit • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit • between auxiliary contain of there 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 • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • between code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Bieli-7439-92-1 Biemonoxid (Bleioxid) - 1317-36-8 Bielitanzir/sonoxid - 12626-81-2 2/2 (6,6-Tetrabrom-4,4-isopropylidendi - 79-94-7 Ambient conditions installation allitude at height above sea level maximum anbient temperature • during operation	product type designation	3RA61
product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state 0.1 W • at AC in hot operating state per pole 0.03 W • without load current share typical 6 W Insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6 000 V maximum permissible voltage for protective separation • between main and auxiliary circuit 400 V • between auxiliary and auxiliary circuit 250 V • between control and auxiliary circuit 300 V degree of protection NEMA rating 300 V degree of protection NEMA rating 300 V degree of protection nema 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 • 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 30 000 • at AC-15 at 6 A at 230 V typical 200 000 1ype of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 59io1/2012 Biel 7439-92-1 Bielmonoid (Bleioxid) - 1317-36-8 Bielitanzichronoid - 1262-8-1-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum 2 000 m	General technical data	
power loss [W] for rated value of the current at AC in hot operating state 0.1 W at AC in hot operating state pole 0.03 W without load current share typical 6 W insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6000 V maximum permissible voltage for protective separation between main and auxiliary circuit 400 V between auxiliary and auxiliary circuit 250 V between control and auxiliary circuit 300 V degree of protection NEMA rating 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 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 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 20 000 type of assignment continuous operation according to IEC 60947-6-2 Substance Prohibitance (Date) 05/01/2012 SVHC substance name Bielitanzirkonoxid - 12626-81-2 2/2 (6,6"-Tetrabrom-4,4"-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation - 20 +60 °C	product function control circuit interface to parallel wiring	Yes
at AC in hot operating state per pole without load current share typical few without load current share typical 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 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 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 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 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 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 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 vibration resistance 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 you with a shock resistance 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 per 3 ms and a shock resistance 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	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 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 other 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 the signaling contacts typical at AC-15 at 6 A at 24 V typical at AC-15 at 6 A at 24 V typical at AC-15 at 6 A at 230 V typical verference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Biel 7-439-92-1 Bielimonoxid (Bleioxid) - 1317-36-8 Bielitanzirkonoxid - 12626-81-2 2,2'6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum author in temperature of during operation course of political and conditions are installation altitude at height above sea level maximum author installation altitude at height above sea level maximum degree of protection by contacts spical degree of protection search and auxiliary contacts ference code according to IEC 81346-2 200 m ambient temperature of during operation	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 0ther 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 200 000 et at AC-15 at 6 A at 230 V typical 200 000 type of assignment continous operation according to IEC 60947-6-2 Terference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleittanzirkonoxid - 12626-81-2 2,2°,6.6°-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation -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 • other shock resistance • a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance • of the main contacts typical • of the main contacts typical • of auxiliary contacts typical • of auxiliary 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 • at AC-15 at 6 A at 230 V typical Substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleittanzirkonoxid - 12626-81-2 2,2'c,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 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 3 surge voltage resistance rated value 6 000 V 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 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 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 continuous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 SVHC substance name Blei-7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleittlanzirkonoxid - 12626-81-2 2,2'6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation - 20 +60 °C	 without load current share typical 	6 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 • 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 • of the signaling contacts • of the signaling contacts	insulation voltage rated value	690 V
maximum permissible voltage for protective separation • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) • of the main contacts typical • of 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 AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • at Continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Blei-7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleittlanzirkonoxid - 12626-81-2 2,2'c,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 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 control and auxiliary circuit between control and auxiliary circuit between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical of the signaling contacts typical of the CC-13 at 6 A at 24 V typical at AC-15 at 6 A at 230 V typical other at AC-15 at 6 A at	surge voltage resistance rated value	6 000 V
between auxiliary and auxiliary circuit between control and auxiliary circuit other between control and auxiliary circuit other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical of the signaling contacts typical of at AC-15 at 6 A at 230 V typical of the signaling contacts of the signaling contacts typical of the signaling contacts of the signaling contacts typical of the signaling contacts ty	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 at DC-13 at 6 A at 24 V typical at DC-13 at 6 A at 230 V typical on typical ontinous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation	 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 the signaling contacts of the signaling contacts of the signaling contacts of the signaling contacts typical of the signaling contacts of the signaling contacts typical of the signaling contacts 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 the signaling contacts t	 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 • 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 vertical conditions SUHC substance name Selection Selection	degree of protection NEMA rating	other
mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical of the signaling contacts of the si	shock resistance	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes
of the main contacts typical for auxiliary contacts typical for five signaling contacts typical for the signaling contacts typical for five signaling contacts typical for 6000000 for five signaling contacts typical for 60000000 for five signaling contacts typical for 60000000 for five signaling contacts typical for 60000000 for five signaling contacts typical for 600000000 for five signaling contacts typical for 6000000000 for five signaling contacts typical for 600000000 for five signaling contacts typical for 600000000 for five signaling contacts typical for 6000000000 for five signaling contacts typical for 600000000 for five signaling contacts typical for 6000000000 for five signaling contacts typical for 6000000000 for five signaling contacts typical for 60000000000 for five signaling contacts typical for 600000000000 for five signaling contacts typical for 6000000000000000 for five signaling contacts typical for 6000000000000000000 for five signaling contacts	vibration resistance	f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles
of auxiliary contacts typical of the signaling contacts typical of the signaling contacts typical of the signaling contacts typical electrical endurance (operating cycles) of auxiliary contacts o at DC-13 at 6 A at 24 V typical o at AC-15 at 6 A at 230 V typical other of assignment continous operation according to IEC 60947-6-2 gubstance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation -20 +60 °C	mechanical service life (operating cycles)	
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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) SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleittanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum 2 000 m 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 Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation -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 Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature ● during operation -20 +60 °C	electrical endurance (operating cycles) of auxiliary contacts	
type of assignment reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation continous operation according to IEC 60947-6-2 Q Q 200/1/2012 Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 -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) SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	at AC-15 at 6 A at 230 V typical	200 000
Substance Prohibitance (Date) SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	type of assignment	continous operation according to IEC 60947-6-2
SVHC substance name Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C	reference code according to IEC 81346-2	Q
Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7	Substance Prohibitance (Date)	05/01/2012
installation altitude at height above sea level maximum ambient temperature ● during operation -20 +60 °C	SVHC substance name	Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2
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 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	0.32 1.25 A
formula for making capacity limit current	38.4 x le
formula for limit current breaking capacity	32 x le
yielded mechanical performance for 4-pole AC motor	
• 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	1.20 /\
— at 400 V rated value	1.1 A
— at 500 V rated value	1.2 A
— at 690 V rated value — at 690 V rated value	1.1 A
	1.1 Λ
operating power	0.37 kW
• at AC-3 at 400 V rated value	0.37 kW
• at AC-43	270 M
— at 400 V rated value	370 W
— at 500 V rated value	550 W
— at 690 V rated value	750 W
no-load switching frequency	3 600 1/h
operating frequency	<i></i>
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	1
number of NO contacts for auxiliary contacts	1
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)	
operating short-circuit current breaking capacity (ics)	
• at 400 V	53 kA
	53 kA 3 kA
• at 400 V	
at 400 Vat 500 V rated value	3 kA
at 400 Vat 500 V rated valueat 690 V rated value	3 kA

-1 400 V1	4.05 A
at 480 V rated value at 600 V rated value	1.25 A
at 600 V rated value Violated machinists performance [hp] for 2 phase AC mater.	1.25 A
yielded mechanical performance [hp] for 3-phase AC motor	0.51
• 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 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	170 mm
width	45 mm
depth	165 mm
Connections/ Terminals	
product component removable terminal for main circuit	Yes
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
 for main current circuit 	plug-in without terminals
 for auxiliary and control circuit 	screw-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1.5 6 mm²), 1x 10 mm²
 finely stranded with core end processing 	2x (1.5 6 mm²)
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	0.5 4 mm², 2x (0.5 2.5 mm²)
 finely stranded with core end processing 	0.5 2.5 mm², 2x (0.5 1.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 14)
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 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 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
-1-0	

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	2
Certificates/ approvals	

General Product Approval

EMC

Functional Safety/Safety of Machinery



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other

Dangerous Good





Confirmation

Transport Information

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA6120-1BP33

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6120-1BP33

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-1BP33

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

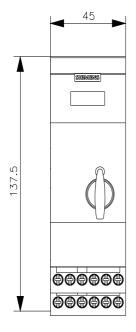
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6120-1BP33&lang=en

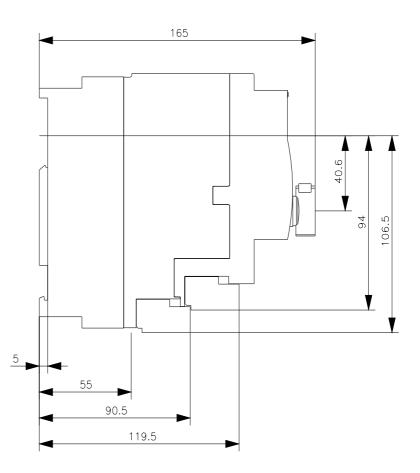
Characteristic: Tripping characteristics, I²t, Let-through current

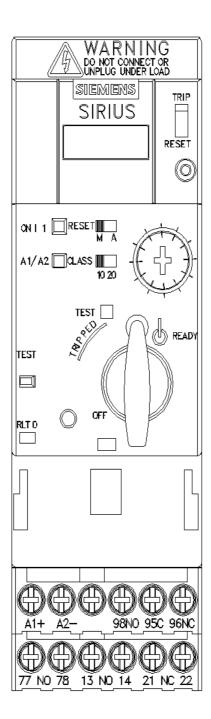
https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-1BP33/char

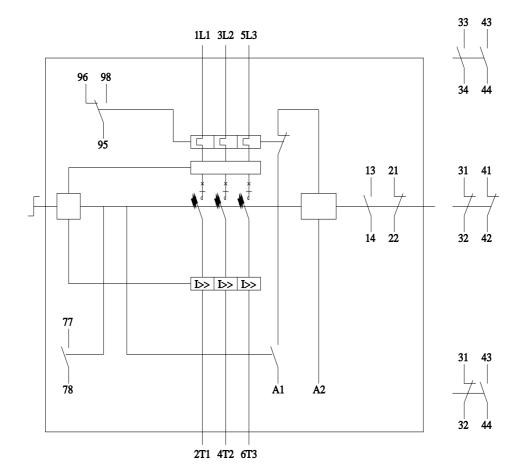
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6120-1BP33&objecttype=14&gridview=view1









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