SIEMENS

Data sheet 3RA6120-2BB32



SIRIUS Compact load feeder DOL starter 690 V 24 V AC/DC 50...60 Hz 0.32...1.25 A IP20 Connection main circuit: Spring-type terminal Connection auxiliary circuit: Spring-type terminal

product brand name	SIRIUS
product designation	compact starter
design of the product	direct starter
product type designation	3RA61
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 	0.1 W
 at AC in hot operating state per pole 	0.03 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	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)	
 of the main contacts typical 	10 000 000
 of auxiliary contacts typical 	10 000 000
of the signaling contacts typical	10 000 000
electrical endurance (operating cycles) of auxiliary contacts	
• at DC-13 at 6 A at 24 V typical	30 000
at AC-15 at 6 A at 230 V typical	200 000
type of assignment	continous operation according to IEC 60947-6-2
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	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	1.518 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-20 +60 °C
during storage	-55 +80 °C
during transport	-55 +80 °C

Main cereal	relative humidity during operation	10 90 %
number of poles for main current circuit diginstable corner seponse value current of the current. dependent overfoade releases formula for miding capacity imitin current 38.4 x ie formula for miding capacity imitin current 38.4 x ie formula for miding capacity imitin current 38.4 x ie formula for miding capacity imitin current 38.4 x ie 37.7 kW 4.1 80.0 v rated value 5.5 x W		
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dependent overload release	·	
Formula for limit current breaking capacity 32 x le		
validor mechanical performance for 4-pole AG motor	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	
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Operating voltage at AC-3 rated value maximum	at 500 V rated value	0.55 kW
Operational current		0.75 kW
	· · · · · · · · · · · · · · · · · · ·	690 V
• at AC-3 at 400 V rated value	•	
		1.25 A
— at 890 V rated value		
a AC-3 at 400 V rated value		
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at 500 V rated value		2-2.14
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• at 400 V rated value	trip class	CLASS 10 and 20 adjustable
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at 690 V rated value 3 kA UL/CSA ratings	• at 400 V rated value	53 kA
UL/CSA ratings	• at 500 V rated value	3 kA
	• at 690 V rated value	3 kA
full-load current (FLA) for 3-phase AC motor	UL/CSA ratings	
	full-load current (FLA) for 3-phase AC motor	

at 480 V rated value at 600 V rated value by didded mechanical performance [hg] for 3-phase AC motor at 480 V rated value other at 460 V rated value other at 460 V rated value other at 4575600 V rated value contact rating of auxiliary contacts according to UL contacts 21-22, 13-14, 43-44 Q500 / A600, contacts 77-78 R300 / B300, contacts according to UL contacts 21-22, 13-14, 43-44 Q500 / A600, contacts 77-78 R300 / B300, contacts for 68-68 R300 / D330 Short-circuit protection design of short-circuit protection design of the five link of or short-circuit protection of the signaling switch of the short-circuit protection of the signaling switch of the short-circuit release required of the short-circuit protection of the signaling switch of the overload release required installation/mounting position recommended fastening method height 191 mm width 45 mm depth 201 mm with 45 mm depth 191 mm with 45 mm depth 201 connectable conductor cross-sections for main current record of rowally and control circuit type of connectable conductor cross-sections of or Micro Cables for auxiliary contacts - solid — finely stranded without core end processing — with link demand rate according to SN 31520 BY O value with link pid emand rate according to SN 31520 BY O value with link pid emand rate according to SN 31520 BY O value with link demand rate according to SN 31520		
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• for short-circuit protection of the signaling switch required • for short-circuit protection of the signaling switch of the short-circuit release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload of the signaling switch of the overload overload of the signaling switch of the overload overload of the signaling switch of the survival standard DIN rail standard DIN rai	design of short-circuit protection	electromagnetic
• for short-circuit protection of the signaling switch of the short-circuit release required • for short-circuit protection of the signaling switch of the overload release required Installation mounting dimensions mounting position mounting position commended fastening method height height 191 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 • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts • solid • finely stranded with core end processing • for auxiliary contacts • for AVIG cables for auxiliary contacts • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • If usue for proof test interval or service life according to IEC 71 value for proof test interval or service life according to IEC 1508	design of the fuse link	
short-circuit release required • for short-circuit protection of the signaling switch of the overload release required Installation/ mounting/ dimensions mounting position recommended vertical, on horizontal standard DIN rail fastening method screw and snap-on mounting height 191 mm width 45 mm dopth 165 mm Connections/ Terminals product component removable terminal for main circuit Yes product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit spring-loaded terminals type of connectable conductor cross-sections for main contacts • solid • (niety stranded with core end processing 2x (1.5 6 mm²) • (niety stranded without core end processing 2x (1.5 6 mm²) • (or auxiliary contacts • for auxiliary contacts • for duxiliary contacts • for auxiliary contacts • for duxiliary contacts • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920	 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
overload release required installation/ mounting position mounting position recommended mounting position recommended vertical, on horizontal standard DIN rail fastening method sorew and snap-on mounting height 191 mm width 45 mm depth 165 mm Connections/ Terminals product component removable terminal for main circuit yes of electrical connection • for main current circuit • for auxiliary and control circuit type of electrical conductor cross-sections for main contacts • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing - finely stranded with core end processing - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing - finely stranded without core end processing - finely stranded without core end processing • for AWG cables for auxiliary contacts - for AWG cables for auxiliary contacts - with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 in the stranded vithout core end processing to SN 31920 - with high demand rate according to SN 31920 in the stranded vithout core end processing to SN 31920 in the stranded vithout core end processing to SN 31920 in the stranded vithout core end processing to SN 31920 in the stranded vithout core end processing to SN 31920 in the stranded vithout core end processing to SN 31920 in the stranded vithout core end processing to SN 31920 in the stranded vithout core end processing to SN 31920 in the stranded vithout core end processing to SN 31920 in the stranded vithout core end processing to SN 31920 in the stranded vithout core end processing to SN 31920 in the stranded vithout core end processing to SN 31920 in the stranded vithout core end processing to SN 31920 in the stranded vithout core end processing to SN 31920 in the stranded vithout core end processing to SN 31920 in the stranded vithout core end processing to SN 31920 in the		6A gL/gG/400V
mounting position crecommended vertical, on horizontal standard DIN rail vertical, on horizontal standard DIN rail screw and snap-on mounting height 191 mm 165 mm		4A gL/gG/400V
mounting position recommended fastening method height width depth Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit spring-loaded terminals **To auxiliary and control circuit type of connectable conductor cross-sections for main contacts • solid • finely stranded with core end processing • innely stranded without core end processing • for auxiliary contacts — solid — finely stranded without core end processing • for auxiliary contacts — solid — finely stranded without core end processing • for Auxiliary contacts • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 * with high demand rate according to SN 31920 * with low demand rate according to SN 31920 * With low demand rate according to SN 31920 * B10 value with high demand rate according to SN 31920 * B10 value for proof test interval or service life according to IEC 61508 ETC 61508	Installation/ mounting/ dimensions	
fastening method height 191 mm width 45 mm depth 165 mm Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit spring-loaded terminals **refinely stranded with core end processing • finely stranded without 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 — finely stranded with core end processing 2x (0.25 1.5 mm²) — finely stranded without core end processing 9	mounting position	any
height 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 type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • for inely stranded with core end processing 2x (1.5 6 mm²) • finely stranded without core end processing 2x (1.5 6 mm²) • finely stranded without core end processing 2x (1.5 6 mm²) • for auxiliary contacts — solid 2x (0.25 1.5 mm²) — finely stranded with core end processing 2x (0.25 1.5 mm²) • for Auxiliary contacts — solid 2x (0.25 1.5 mm²) • for Auxiliary contacts — solid 2x (0.25 1.5 mm²) • for Auxiliary contacts — with low deales for auxiliary contacts 2x (24 16) Safety related data proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 100 FIT 11 value for proof test interval or service life according to IEC 61508	mounting position recommended	vertical, on horizontal standard DIN rail
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 type of electrical connection • for main current circuit spring-loaded terminals 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 mm²) • finely stranded without core end processing 2x (1.5 6 mm²) type of connectable conductor cross-sections • for auxiliary contacts — solid — 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 fallures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 Failure rate [FIT] with low demand rate according to SN 31920 EC 61508 T1 value for proof test interval or service life according to IEC 61508	fastening method	screw and snap-on mounting
depth Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxilliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts • solid • solid • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts • solid • for auxiliary contacts • solid • finely stranded without core end processing • for auxiliary contacts • for auxiliary contacts - solid - finely stranded with core end processing • for auxiliary contacts - solid - finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 4x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 5x (0.25 1.5 mm²) 4x (0.25 1.5 mm²) 4x (0.25 1.5 mm²) 5x (0.25	height	191 mm
product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit type of electrical connection		45 mm
product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit type of electrical connection	depth	165 mm
product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts • solid • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts — solid — finely stranded with core end processing • for auxiliary contacts — solid — finely stranded with core end processing • for auxiliary contacts — solid — finely stranded with core end processing • for AV/C cables for auxiliary contacts • for AV/C cables for auxiliary contacts 2x (0.25 1.5 mm²) • for AV/C cables for auxiliary contacts 2x (2.4 16) Safety related data proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to IEC 61508		
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Solid	for auxiliary and control circuit	spring-loaded terminals
• finely stranded with core end processing • finely stranded without core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — finely stranded with core end processing — finely stranded with core end processing — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts Safety related data proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to IEC 61508	type of connectable conductor cross-sections for main contacts	
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type of connectable conductor cross-sections • for auxiliary contacts — solid — finely stranded with core end processing — finely stranded without core end processing — 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 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to IEC 61508	 finely stranded with core end processing 	2x (1.5 6 mm²)
• for auxiliary contacts — solid — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts Safety related data proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to IEC 61508 T1 value for proof test interval or service life according to IEC 61508	 finely stranded without core end processing 	2x (1.5 6 mm²)
solid finely stranded with core end processing finely stranded without core end processing (2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16) Safety related data proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 solve the first the firs	type of connectable conductor cross-sections	
— finely stranded with core end processing — 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 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to IEC 61508	for auxiliary contacts	
— finely stranded with core end processing — 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 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to IEC 61508	— solid	2x (0.25 1.5 mm²)
for AWG cables for auxiliary contacts Safety related data proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to IEC 61508 2x (24 16) 40 % 40 % 50 % B10 value with high demand rate according to SN 31920 100 FIT 20 a	 finely stranded with core end processing 	
for AWG cables for auxiliary contacts Safety related data proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to IEC 61508 2x (24 16) 40 % 40 % 50 % B10 value with high demand rate according to SN 31920 100 FIT 20 a	finely stranded without core end processing	2x (0.25 1.5 mm²)
proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to IEC 61508	 for AWG cables for auxiliary contacts 	
proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to IEC 61508	Safety related data	
 with low demand rate according to SN 31920 with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to IEC 61508 20 a 		
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B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to IEC 61508	-	
failure rate [FIT] with low demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to IEC 61508		
IEC 61508 T1 value for proof test interval or service life according to IEC 61508 20 a	failure rate [FIT] with low demand rate according to SN	
T1 value for proof test interval or service life according to IEC 61508		
	T1 value for proof test interval or service life according to IEC	20 a
protection class IP on the front according to IEC 60529 IP20		IP20
touch protection on the front according to IEC 60529 finger-safe		
Communication/ Protocol		
product function bus communication No		No
protocol is supported	·	
AS-Interface protocol No		No
	·	
product function control circuit interface with IO link No	·	INO
Electromagnetic compatibility		
conducted interference		A IA/ main contests 2 IA/ cur/line t t-
• 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 burst according to IEC 61000-4-4	4 KV IIIalii contacts, z 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
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
Approvals Certificates	

General Product Approval







Confirmation





EMV **Functional Saftey** **Test Certificates**

Marine / Shipping





Type Test Certificates/Test Report







other **Environment Dangerous goods**

Transport Information Environmental Con-Confirmation

firmations

Information on the packaging

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA6120-2BB32

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6120-2BB32

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

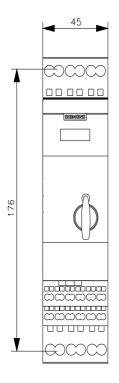
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

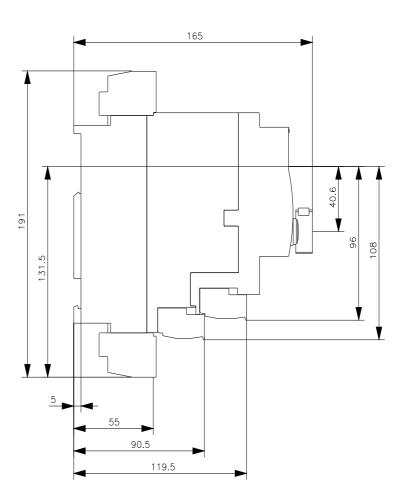
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb

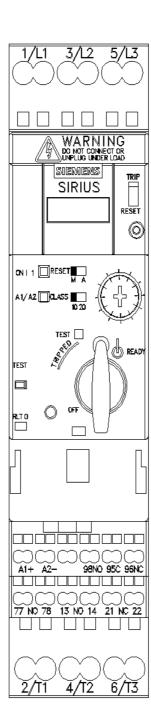
Characteristic: Tripping characteristics, I2t, Let-through current

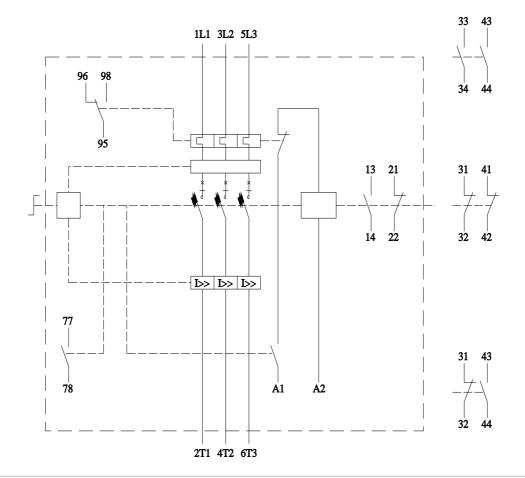
https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-2BB32/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6120-2BB32&objecttype=14&gridview=view1









last modified: 3/11/2024 🖸