SIEMENS

Data sheet 3RA6120-1CP33

SIRIUS Compact load feeder DOL starter 690 V 110...240 V AC/DC 50...60 Hz 1...4 A IP20 Connection main circuit: plug-in, without terminals Connection auxiliary circuit: screw 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 	1 W
 at AC in hot operating state per pole 	0.33 W
Power loss [W] for rated value of the current without	6 W
load current share typical	
Insulation voltage	
• rated value	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 000 V
maximum permissible voltage for safe isolation	

	 between main and auxiliary circuit 	400 V
Protection class IP IP20 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 • of the main contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 Electrical endurance (switching cycles) of auxiliary contacts 30 000 • at DC-13 at 6 A at 24 V typical 200 000 Type of assignment continous operation according to IEC 60947-6-2 Reference code acc. to DIN EN 81348-2 Q Reference code acc. to DIN EN 61348-2 Q 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 Relative humidity during operation 10 90 % Main circuit 3 Number of poles for main current circuit 1 4 A dependent overload release 10 x le Formula for inter	 between auxiliary and auxiliary circuit 	250 V
Shock resistance	 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/s²; 10 cycles Mechanical service life (switching cycles) 10 000 000 of the main contacts typical 10 000 000 of the signaling contacts typical 10 000 000 Electrical endurance (switching cycles) of auxiliary contacts other at DC-13 at 6 A at 24 V typical 200 000 Type of assignment 200 000 Ambient conditions 200 000 Ambient temperature 200 000 of the main in the system 200 000 Ambient temperature 200 000 of the main in the system 200 000 Ambient temperature 200 000 of the main in the system 200 000 Ambient temperature 200 000 of the main in the system 200 000 Ambient temperature 200 000 of the main in the system 200 000 Ambient temperature 200 000 of the main in the system 200 000 of the main in the system 200 000 Ambient temperature 200 000 of the main in the system 200 000 of the main in th	Protection class IP	IP20
e of the main contacts typical e of auxiliary contacts typical e of auxiliary contacts typical e of the signaling contacts typical e of the signaling contacts typical e of the signaling contacts typical lectrical endurance (switching cycles) of auxiliary contacts e 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 acc. to DIN EN 81346-2 Q Reference code acc. to DIN EN 81346-2 Q Ambient conditions Installation attitude at height above sea level e maximum Ambient temperature e during operation e during storage during transport Relative humidity during operation -20 +60 °C elative humidity during operation Main circuit Number of poles for main current circuit 3 Adjustable pick-up value current of the current-dependent overload release Formula for making capacity limit current 1 4 A dependent overload release Formula for making capacity limit current 1 to x le Mechanical power output for 4-pole AC motor e at 400 V rated value 1 at 500 V rated value 2 2 kW e at 500 V rated value 3 kW Operating current e at AC-3 arted value maximum 590 V Operating current at AC-43 - at 400 V rated value 3 at AC-3 - at 400 V rated value	Shock resistance	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes
of the main contacts typical of auxiliary contacts typical of the signaling contacts typical contacts or 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 acc. to DIN EN 81346-2 Q Ambient conditions Installation altitude at height above sea level maximum Ambient temperature outring operation outring storage oduring transport outring torage outring transport Main circuit Number of poles for main current circuit 3 Adjustable pick-up value current of the current-dependent overload release Formula for making capacity limit current 12 x le Formula for making capacity limit current Mechanical power output for 4-pole AC motor at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at AC-3 rated value maximum Operating outrent at AC-43 — at 400 V rated value at AC-43 — at 400 V rated value at AC-43 — at 400 V rated value	Vibration resistance	f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles
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of the signaling contacts typical Electrical endurance (switching cycles) of auxiliary contacts	 of the main contacts typical 	10 000 000
Electrical endurance (switching cycles) of auxiliary contacts • at DC-13 at 6 A at 24 V typical 200 000 Type of assignment continous operation according to IEC 60947-6-2 Reference code acc. to DIN EN 81346-2 Q Reference code acc. to DIN EN 81346-2 Q Ambient conditions Installation altitude at height above sea level • maximum 2000 m Ambient temperature • during operation -20 +60 °C • during storage -55 +80 °C Relative humidity during operation 10 90 % Main circuit Number of poles for main current circuit 3 Adjustable pick-up value current of the current-dependent overload release Formula for interruption capacity limit current 10 x le Mechanical power output for 4-pole AC motor • at 400 V rated value 1.5 kW • at 500 V rated value 3 kW Operating current • at AC-3 rated value maximum 690 V Operating current • at AC-43 — at 400 V rated value 3.6 A	 of auxiliary contacts typical 	10 000 000
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 Z00 000 Reference code acc. to DIN EN 81346-2 Reference code acc. to DIN EN 61346-2 Q Ambient conditions Installation altitude at height above sea level • maximum Ambient temperature • during operation • during storage • during transport Relative humidity during operation 10 90 % Main circuit Number of poles for main current circuit Adjustable pick-up value current of the current-dependent overload release Formula for interruption capacity limit current Mechanical power output for 4-pole AC motor • at 400 V rated value • at 500 V rated value • at 690 V Tated value • at AC-3 rated value maximum • at AC at 400 V rated value • at AC at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value • at AC-43 • at 400 V rated value	 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 acc. to DIN EN 81346-2 Q Reference code acc. to DIN EN 61348-2 Ambient conditions Installation altitude at height above sea level • maximum 2 000 m Ambient temperature • during operation 2-20 +60 °C • during storage 55 +80 °C Relative humidity during operation 10 90 % Main circuit Number of poles for main current circuit 3 Adjustable pick-up value current of the current-dependent overload release formula for interruption capacity limit current 12 x le Formula for Interruption capacity limit current 10 x le Mechanical power output for 4-pole AC motor • at 400 V rated value 2.2 kW • at 500 V rated value 3 kW Operating current • at AC-3 rated value maximum 690 V Operating current • at AC at 400 V rated value 4 A • at AC-43 — at 400 V rated value 4 A		
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Reference code acc. to DIN EN 81346-2 Reference code acc. to DIN EN 81346-2 Q Ambient conditions Installation altitude at height above sea level • maximum Ambient temperature • during operation • during storage • during transport Relative humidity during operation 10 90 % Main circuit Number of poles for main current circuit Adjustable pick-up value current of the current-dependent overload release Formula for interruption capacity limit current 12 x le Formula for interruption capacity limit current 10 x le Mechanical power output for 4-pole AC motor • at 400 V rated value • at 690 V rated value • at 690 V rated value • at AC-3 rated value maximum • at AC at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • 3.6 A	• at AC-15 at 6 A at 230 V typical	200 000
Ambient conditions Installation altitude at height above sea level • maximum Ambient temperature • during operation • during storage • during transport Relative humidity during operation 10 90 % Main circuit Number of poles for main current circuit Adjustable pick-up value current of the current-dependent overload release Formula for making capacity limit current Pormula for interruption capacity limit current 10 x le Mechanical power output for 4-pole AC motor • at 400 V rated value • at 500 V rated value • at 690 V rated value maximum 690 V Operating current • at AC at 400 V rated value • at AC-3 rated value • at AC-43 — at 400 V rated value • at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value 3.6 A	Type of assignment	continous operation according to IEC 60947-6-2
Installation altitude at height above sea level • maximum Ambient temperature • during operation • during storage • during transport Relative humidity during operation 10 90 % Main circuit Number of poles for main current circuit 3 Adjustable pick-up value current of the current-dependent overload release Formula for making capacity limit current 10 x le Mechanical power output for 4-pole AC motor • at 400 V rated value • at 690 V rated value • at AC-3 rated value maximum • at AC at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value • at AC-43 — at 400 V rated value 3.6 A	Reference code acc. to DIN EN 81346-2	Q
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Ambient temperature • during operation • during storage • during transport -55 +80 °C Relative humidity during operation 10 90 % Main circuit Number of poles for main current circuit 3 Adjustable pick-up value current of the current-dependent overload release Formula for making capacity limit current 12 x le Formula for interruption capacity limit current 10 x le Mechanical power output for 4-pole AC motor • at 400 V rated value • at 500 V rated value • at 690 V rated value 3 kW Operating voltage • at AC-3 rated value maximum 690 V Operating current • at AC at 400 V rated value • at AC-43 — at 400 V rated value 3 & AC at 400 V rated value 4 A • at AC-43 — at 400 V rated value 3 & AC at 400 V rated value 4 A • at AC-43 — at 400 V rated value 3 & AC	Installation altitude at height above sea level	
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• during storage • during transport Relative humidity during operation Main circuit Number of poles for main current circuit Adjustable pick-up value current of the current-dependent overload release Formula for making capacity limit current Mechanical power output for 4-pole AC motor • at 400 V rated value • at 500 V rated value • at 690 V rated value • at AC-3 rated value maximum Operating current • at AC at 400 V rated value • at AC at 400 V rated value • at AC-43 — at 400 V rated value 3.6 A	Ambient temperature	
during transport Relative humidity during operation 10 90 % Main circuit Number of poles for main current circuit 3 Adjustable pick-up value current of the current-dependent overload release Formula for making capacity limit current 12 x le Formula for interruption capacity limit current 10 x le Mechanical power output for 4-pole AC motor • at 400 V rated value • at 500 V rated value • at 690 V rated value 3 kW Operating voltage • at AC-3 rated value maximum Operating current • at AC at 400 V rated value • at AC at 400 V rated value • at AC-43 — at 400 V rated value 3.6 A	during operation	-20 +60 °C
Relative humidity during operation Main circuit Number of poles for main current circuit Adjustable pick-up value current of the current-dependent overload release Formula for making capacity limit current 12 x le Formula for interruption capacity limit current Mechanical power output for 4-pole AC motor • at 400 V rated value • at 500 V rated value • at 690 V rated value • at AC-3 rated value maximum Operating current • at AC at 400 V rated value	during storage	-55 +80 °C
Main circuit Number of poles for main current circuit Adjustable pick-up value current of the current-dependent overload release Formula for making capacity limit current 12 x le Formula for interruption capacity limit current 10 x le Mechanical power output for 4-pole AC motor • at 400 V rated value • at 500 V rated value • at 690 V rated value • at AC-3 rated value maximum Operating current • at AC at 400 V rated value • at AC-43 — at 400 V rated value 3.6 A	during transport	-55 +80 °C
Number of poles for main current circuit Adjustable pick-up value current of the current-dependent overload release Formula for making capacity limit current 12 x le Formula for interruption capacity limit current 10 x le Mechanical power output for 4-pole AC motor • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at AC-3 rated value maximum • at AC at 400 V rated value • at AC at 400 V rated value • at AC-43 • at 400 V rated value 3.6 A	Relative humidity during operation	10 90 %
Adjustable pick-up value current of the current- dependent overload release Formula for making capacity limit current 12 x le Formula for interruption capacity limit current 10 x le Mechanical power output for 4-pole AC motor at 400 V rated value at 500 V rated value at 690 V rated value at AC-3 rated value maximum 690 V Operating current at AC at 400 V rated value at AC-43 at 400 V rated value 3.6 A	Main circuit	
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Formula for interruption capacity limit current Mechanical power output for 4-pole AC motor • at 400 V rated value • at 500 V rated value • at 690 V rated value • at AC-3 rated value maximum • at AC at 400 V rated value • at AC at 400 V rated value • at AC-43 — at 400 V rated value 3.6 A		1 4 A
Mechanical power output for 4-pole AC motor • at 400 V rated value • at 500 V rated value • at 690 V rated value 3 kW Operating voltage • at AC-3 rated value maximum 690 V Operating current • at AC at 400 V rated value • at AC-43 — at 400 V rated value 3.6 A	Formula for making capacity limit current	12 x le
 at 400 V rated value at 500 V rated value at 690 V rated value 3 kW Operating voltage at AC-3 rated value maximum 690 V Operating current at AC at 400 V rated value at AC-43 at 400 V rated value 3.6 A 	Formula for interruption capacity limit current	10 x le
 at 500 V rated value at 690 V rated value 3 kW Operating voltage at AC-3 rated value maximum 690 V Operating current at AC at 400 V rated value at AC-43 at 400 V rated value 3.6 A 3.6 A	Mechanical power output for 4-pole AC motor	
 at 690 V rated value Operating voltage at AC-3 rated value maximum Operating current at AC at 400 V rated value at AC-43 at 400 V rated value 3 kW 4 A 500 V 4 A 500 V 500 V 690 V<!--</th--><th>• at 400 V rated value</th><th>1.5 kW</th>	• at 400 V rated value	1.5 kW
Operating voltage • at AC-3 rated value maximum 690 V Operating current • at AC at 400 V rated value • at AC-43 — at 400 V rated value 3.6 A	● at 500 V rated value	2.2 kW
 at AC-3 rated value maximum Operating current at AC at 400 V rated value at AC-43 at 400 V rated value 3.6 A 	● at 690 V rated value	3 kW
Operating current • at AC at 400 V rated value • at AC-43 — at 400 V rated value 3.6 A	Operating voltage	
 at AC at 400 V rated value at AC-43 at 400 V rated value 3.6 A 	• at AC-3 rated value maximum	690 V
at AC-43 — at 400 V rated value 3.6 A	Operating current	
— at 400 V rated value 3.6 A	• at AC at 400 V rated value	4 A
	● at AC-43	
— at 500 V rated value 3.9 A	— at 400 V rated value	3.6 A
	— at 500 V rated value	3.9 A

— at 690 V rated value	3.8 A
Operating power	
• at AC-3	
— at 400 V rated value	1 500 W
• at AC-43	
— at 400 V rated value	1 500 W
— at 500 V rated value	2 200 W
— at 690 V rated value	3 000 W
No-load switching frequency	3 600 1/h
Operating frequency	
• at AC-41 acc. to IEC 60947-6-2 maximum	750 1/h
• at AC-43 acc. 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	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	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 	1
signaling contact	
Number of CO contacts	
 of the current-dependent overload release for signaling contact 	1
Operating current of auxiliary contacts at AC-12 maximum	10 A
Operating current of auxiliary contacts at DC-13	
● at 250 V	0.27 A
Protective and monitoring functions	
Trip class	CLASS 10 and 20 adjustable
Operational short-circuit current breaking capacity (Ics)	
(1997)	

● 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 three-phase AC motor	
• at 480 V rated value	4 A
• at 600 V rated value	4 A
Yielded mechanical performance [hp]	
 for three-phase AC motor 	
— at 200/208 V rated value	0.75 hp
— at 220/230 V rated value	0.75 hp
— at 460/480 V rated value	2 hp
— at 575/600 V rated value	3 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 mounting rail
Mounting type	screw and snap-on mounting
Height	170 mm
Width	45 mm
Depth	165 mm

Connections/ Terminals	
Product function	
 removable terminal for main circuit 	Yes
 removable terminal for auxiliary and control circuit 	Yes
Type of electrical connection	
• for main current circuit	plug-in without terminals
 for auxiliary and control current 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)
 at AWG conductors for main contacts 	2x (16 10), 1x 8
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)
 at AWG conductors for auxiliary contacts 	2x (20 14)

Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	3 000 000
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	50 %
Failure rate [FIT]	
 with low demand rate acc. to SN 31920 	100 FIT
T1 value for proof test interval or service life acc. to IEC 61508	20 y

Communication/ Protocol	
Product function Bus communication	No
Protocol is supported	
 IO-Link protocol 	No
Product function Control circuit interface with IO link	No

Electromagnetic compatibility	
Conducted interference	
• due to burst acc. to IEC 61000-4-4	4 kV main contacts, 2 kV auxiliary contacts
 due to conductor-earth surge acc. to IEC 61000-4-5 	4 kV main contacts, 2 kV auxiliary contacts
 due to conductor-conductor surge acc. to IEC 61000-4-5 	2 kV main contacts, 1 kV auxiliary contacts
 due to high-frequency radiation acc. to IEC 61000-4-6 	0.15-80Mhz at 10V
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
Electrostatic discharge acc. to IEC 61000-4-2	8 kV
Conducted HF-interference emissions acc. to CISPR11	150 kHz 30 MHz Class A
Field-bound HF-interference emission acc. to CISPR11	30 1000 MHz Class A

No

Supply voltage

Supply voltage required Auxiliary voltage

Certificates/ approvals

General Product Approval

EMC

Functional Safety/Safety of Machinery













Declaration of	of Conformity
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Test Certific-

Marine / Shipping

ates



Miscellaneous

Type Test Certificates/Test Report





other



LRS

Marine / Shipping









Confirmation

Further information

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=3RA6120-1CP33

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6120-1CP33

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

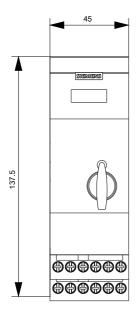
https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-1CP33

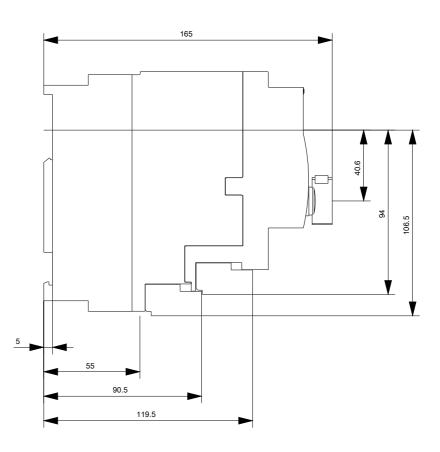
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6120-1CP33\&lang=enderse$

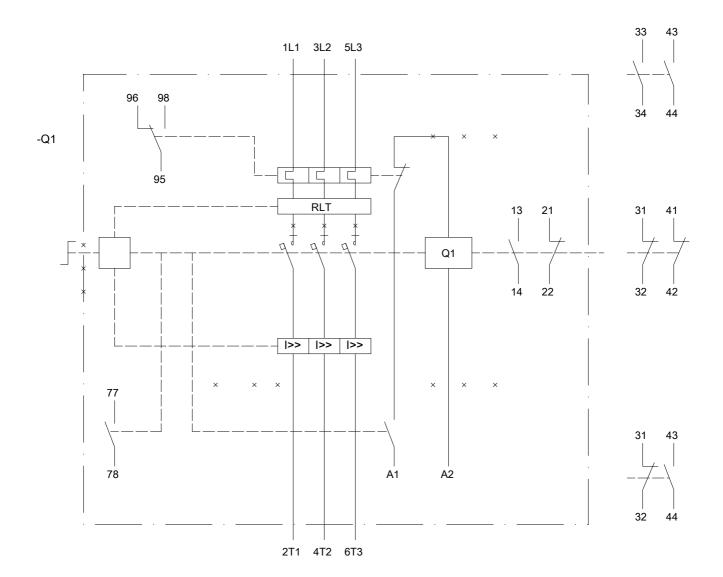
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-1CP33/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6120-1CP33&objecttype=14&gridview=view1







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