SIEMENS

Data sheet 3RA6120-2BP33



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: Spring-type terminal

product designation design of the product design of the product design of the product product type designation SRA61 Central technical data product function control circuit interface to parallel wiring product extension auxiliary switch Yes power loss [W] for rated value of the current at AC in hot operating state that AC in hot operating state per pole without load current share typical without load current share typical finalitation voltage rated value degree of pollution 3 surge voltage resistance rated value degree of pollution surge voltage resistance rated value between main and auxiliary circuit between control and auxiliary circuit between control and auxiliary circuit between control and auxiliary circuit shock resistance vibration resistance fe 4 5.8 Hz, de 15 mm; fe 5.8 500 Hz, a= 20 m/s²; 10 cycles wich the main contacts typical of the main contacts typical of the signaling contacts typical of the signaling contacts typical of the signaling contacts typical of auxiliary contacts typical of the signaling contacts typical of the signaling contacts typical of auxiliary contacts typical of auxiliary contacts typical of the signaling contacts typical of the signaling contacts typical of auxiliary contacts typical of auxiliary contacts typical of the signaling contacts typical of auxiliary contacts typical of the signaling contacts typical of auxiliary contacts typical of the signaling contacts	product brand name	SIRIUS
product type designation General technical data product function control circuit interface to parallel wiring product function control circuit interface to parallel wiring product extension auxiliary switch **es** **power loss [W] for rated value of the current **at AC in hot operating state	product designation	compact starter
Central 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 • at AC in hot operating state per pole • without load current share typical • degree of pollution 3 surge voltage resistance rated value • 6 000 V maximum permissible voltage for protective separation • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control and success of the separation • shock resistance • a=60 m/s2 (8g) 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 the signaling contacts typical • of the signaling contacts typical • of the signaling contacts typical • at DC-13 at 6 A at 24 V Vypical very per of assignment reference code according to IEC 81346-2 Quibstance Prohibitance (Date) Ability of the signaling contacts typical • during operation	design of the product	direct starter
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 • at AC in hot operating state per pole • without load current sharet typical • without load current sharet typical • without load current sharet typical • go 0 V Insulation voltage rated value degree of pollution • between facility of the control of the current • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • also of auxiliary and auxiliary circuit • also of auxiliary contacts typical • of the main contacts typical • 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 24 V typical • at AC-15 at 6 A at 24 V typical • at AC-15 at 6 A at 250 V typical verification of the contact of the contact of the contact contact of the contact of the contact contact and auxiliary contacts • at DC-13 at 6 A at 24 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical	product type designation	3RA61
product extension auxiliary switch power loss [W] for rated value of the current at AC in hot operating state	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 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 auxiliary and auxiliary circuit 300 V degree of protection NEMA rating 5 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 the signaling contacts typical 10 000 000 of the signaling contacts typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts at DC-13 at 6 A at 24 V typical 200 000 type of assignment continuous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature of during transport 55 +80 °C eduring transport 55 +80 °C relative humidity during operation 10 90 % Main circuit	product function control circuit interface to parallel wiring	Yes
at AC in hot operating state at AC in hot operating state per pole without load current share typical for Without load surface typical for Without load and without load with share typical for Without load and without load with share typical for Without load and without load with share typical for Without load and without load with share typical for Without	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 between main and auxiliary circuit between control and auxiliary circuit a =60 m/s2 (6g) with 10 ms per 3 shocks in all axes between control and auxiliary contacts between control resistance fea 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 to 000 000 of the signaling contacts typical of the signaling contacts typical to 000 000 electrical endurance (operating cycles) of auxiliary contacts of the signaling contacts typical to 000 000 electrical endurance (operating cycles) of auxiliary contacts of the signaling contacts typical of the signaling contacts typical to 000 000 electrical endurance (operating cycles) of auxiliary contacts of the signaling contacts typical to 000 000 electrical endurance (operating cycles) of auxiliary contacts of the signaling contacts typical to 000 000 of auxiliary contacts of the signaling contacts of the signaling contacts of the	power loss [W] for rated value of the current	
without load current share typical insulation voltage rated value degree of pollution surge voltage resistance rated value	 at AC in hot operating state 	0.1 W
insulation voltage rated value degree of pollution surge voltage resistance rated value 6 000 V maximum permissible voltage for protective separation • between main and auxiliary circuit • between nain and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit 300 V degree of protection NEMA rating shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) • of the main contacts typical of auxiliary contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts • at DC-13 at 6 A at 24 V typical 200 000 type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation • during storage • during transport relative humidity during operation 10 90 % Main circuit	 at AC in hot operating state per pole 	0.03 W
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maximum permissible voltage for protective separation • 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 the signaling contacts typical • at DC-13 at 6 A at 24 V typical • at DC-13 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • obtinous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport -20 +60 °C -55 +80 °C relative humidity during operation 10 90 % Main circuit	degree of pollution	3
between main and auxiliary circuit between auxiliary and auxiliary circuit between control and auxiliary circuit other shock resistance degree of protection NEMA rating shock resistance shock resistance description resistance	surge voltage resistance rated value	6 000 V
between auxiliary and auxiliary circuit between control and auxiliary circuit other degree of protection NEMA rating shock resistance shock resistance fe 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical of the signaling contacts typical of the signaling contacts typical of the signaling contacts typical of auxiliary contacts typical of at AC-13 at 6 A at 24 V typical at AC-15 at 6 A at 230 V typical other reference code according to IEC 81346-2 Substance Prohibitance (Date) of Substance Prohibitance (Date) of during storage oduring storage oduring storage oduring transport relative humidity during operation Main circuit definitions	maximum permissible voltage for protective separation	
between control and auxiliary circuit degree of protection NEMA rating shock resistance	 between main and auxiliary circuit 	400 V
degree of protection NEMA rating shock resistance shock resistance vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical of the signalling contacts typical of the signalling contacts typical loo 000 of the signalling contacts typical of the main	 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) e of the main contacts typical f of auxiliary contacts typical of the signaling contacts typi	 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 (operating cycles) 10 000 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts 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 according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 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	degree of protection NEMA rating	other
mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of the signaling contacts typical • at DC-13 at 6 A at 24 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage • during transport relative humidity during operation Main circuit	shock resistance	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes
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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) O5/01/2012 Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport eduring transport relative humidity during operation 10 90 % Main circuit	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) Ambient conditions installation altitude at height above sea level maximum ambient temperature aduring operation during storage during transport cut +60 °C during transport cut +80 °C relative humidity during operation 10 90 % Main circuit	electrical endurance (operating cycles) of auxiliary contacts	
type of assignment reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature	• at DC-13 at 6 A at 24 V typical	30 000
reference code according to IEC 81346-2 Substance Prohibitance (Date) O5/01/2012 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit Q 05/01/2012 Q 05/01/2012	at AC-15 at 6 A at 230 V typical	200 000
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit 05/01/2012 2 000 m 2 000 m -20 +60 °C -20 +60 °C -55 +80 °C 10 90 %	type of assignment	continous operation according to IEC 60947-6-2
installation altitude at height above sea level maximum ambient temperature oldring operation during storage oldring transport relative humidity during operation Main circuit 2 000 m -20 +60 °C -55 +80 °C -55 +80 °C 10 90 %	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport -20 +60 °C -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit	Substance Prohibitance (Date)	05/01/2012
ambient temperature • during operation • during storage • during transport • during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit	Ambient conditions	
 during operation during storage during transport telative humidity during operation Main circuit 	installation altitude at height above sea level maximum	2 000 m
● during storage ● during transport ● during transport □ 55 +80 °C relative humidity during operation 10 90 % Main circuit	ambient temperature	
● during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit	during operation	-20 +60 °C
relative humidity during operation 10 90 % Main circuit	during storage	-55 +80 °C
Main 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	0.32 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	1.25 / (
— at 400 V rated value	1.1 A
— at 500 V rated value	1.2 A
— at 690 V rated value	1.1 A
operating powerat AC-3 at 400 V rated value	0.37 kW
	0.57 KVV
• at AC-43	070 14/
— 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	
 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
Burst of the second many is a sign of the sec	
Protective and monitoring functions	
Protective and monitoring functions trip class	CLASS 10 and 20 adjustable
	CLASS 10 and 20 adjustable
trip class	CLASS 10 and 20 adjustable 53 kA
trip class operating short-circuit current breaking capacity (lcs)	,
trip class operating short-circuit current breaking capacity (lcs) • at 400 V	53 kA
trip class operating short-circuit current breaking capacity (Ics) • at 400 V • at 500 V rated value • at 690 V rated value	53 kA 3 kA
trip class operating short-circuit current breaking capacity (Ics) • at 400 V • at 500 V rated value • at 690 V rated value UL/CSA ratings	53 kA 3 kA
trip class operating short-circuit current breaking capacity (Ics) • at 400 V • at 500 V rated value • at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor	53 kA 3 kA 3 kA
trip class operating short-circuit current breaking capacity (Ics) • at 400 V • at 500 V rated value • at 690 V rated value UL/CSA ratings	53 kA 3 kA

• 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	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	Yes
type of electrical connection	
for main current circuit	plug-in without terminals
for auxiliary and control circuit	spring-loaded terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1.5 6 mm²), 1x 10 mm²
 finely stranded with core end processing 	2x (1.5 6 mm²)
 finely stranded without core end processing 	2x (1.5 6 mm²)
type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid	2x (0.25 1.5 mm²)
— finely stranded with core end processing	2x (0.25 1.5 mm²)
— finely stranded without core end processing	2x (0.25 1.5 mm²)
• for AWG cables for auxiliary contacts	2x (24 16)
Safety related data	
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
field-based interference according to IEC 61000-4-3	10 V/m

8 kV electrostatic discharge according to IEC 61000-4-2 150 kHz ... 30 MHz Class A conducted HF interference emissions according to CISPR11 field-bound HF interference emission according to CISPR11 30 ... 1000 MHz Class A Supply voltage Supply voltage required Auxiliary voltage No Displa 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

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=3RA6120-2BP33

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6120-2BP33

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-2BP33

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

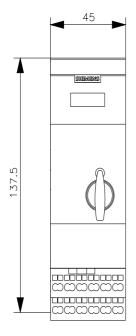
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6120-2BP33&lang=en

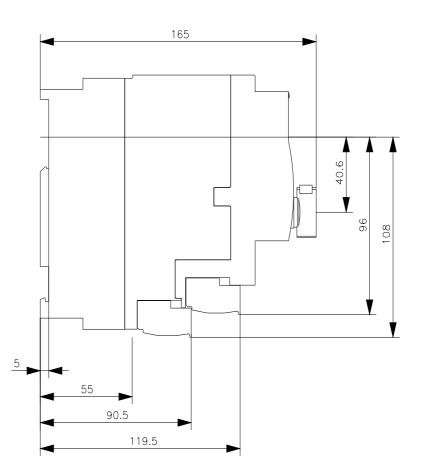
Characteristic: Tripping characteristics, I2t, Let-through current

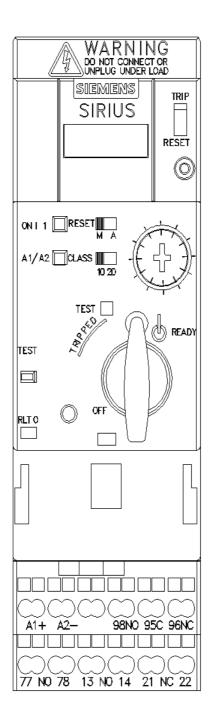
https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-2BP33/char

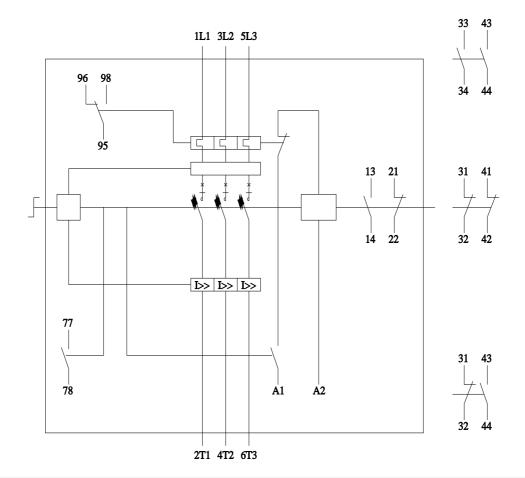
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6120-2BP33&objecttype=14&gridview=view1









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