SIEMENS

Data sheet 3RA6120-1AB34



SIRIUS Compact load feeder DOL starter 690 V 24 V AC/DC 50...60 Hz 0.1...0.4 A IP20 Connection main circuit: screw terminal Connection auxiliary circuit: plug-in, without terminals

product designation compact starter design of the product function control circuit interface to parallel wiring product function control circuit interface to parallel wiring product extension auxiliary switch yes at AC in hot operating state 0.01 W at AC in hot operating state per pole 0.01 W at AC in hot operating state per pole 0.01 W at AC in hot operating state product yes yes at AC in hot operating state product yes yes degree of pollution 3 aurige voltage resistance rated value 690 V degree of pollution 3 aurige voltage resistance rated value 600 V maximum permissible voltage for protective separation between auxiliary circuit 250 V between auxiliary and auxiliary circuit 300 V degree of protection NEMA rating other 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 mechanical service life (operating cycles) of auxiliary contacts typical 10 000 000 of the signaling contacts typical 10 000 000 of the signaling contacts typical 200 000 of the signaling contacts typical 200 000 at AC-15 at 6 A at 24 V typical 200 000 at AC-15 at 6 A at 230 V typical 200 000 at AC-15 at 6 A at 230 V typical 200 000 yes of the signaling contacts produce yes yes and yes		OIDUIO
design of the product product type designation 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 at AC in hot operating state per pole without load current share typical degree of pollution surge voltage resistance rated value degree of pollution surge voltage resistance rated value between main and auxiliary circuit between main and auxiliary circuit between auxiliary and auxiliary circuit between auxiliary and auxiliary circuit between control and auxiliary circuit between resistance mechanical service life (operating cycles) of the main contacts typical of the signaling contacts typical of the signaling contacts typical at AC-13 at 6 A at 24 V typical at AC-13 at 6 A at 230 V typical colectrical endurance (operating cycles) of auxiliary contacts at AC-15 at 6 A at 230 V typical colectrical contact of the	product brand name	SIRIUS
Product type designation SRA61		·
Product function control circuit interface to parallel wiring product extension auxiliary switch product extension auxiliary switch Prose prover 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 ewithout load current share typical surge voltage rated value degree of pollution 3 surge voltage resistance rated value 600 V maximum permissible voltage for protective separation between main and auxiliary circuit between main and auxiliary circuit between main and auxiliary circuit between ontrol and auxiliary circuit between ontrol and auxiliary circuit between resistance mechanical service life (operating cycles) of the main contacts typical of the main contacts typical of the signaling cont		
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 • without load current share typical • at AC in hot operating state per pole • without load current share typical • good V degree of pollution surge voltage resistance rated value • 600 V maximum permissible voltage for protective separation • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit • of the main contacts typical • of auxiliary contacts typical • of the signaling contact		3RA61
product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state 0.01 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 0ther shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes 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 typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts 4 C-15 at 6 A at 24 V typical 200 000 et AC-15 at 6 A at 24 V typical 200 000 type of assignment continuous operation according to IEC 60947-6-2 guestance Prohibitance (Date) 05/01/2012 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead thanking in a since in the signal and intitude at height above sea level maximum 2 000 m ambient conditions mistallation attitude at height above sea level maximum 2 000 m ambient temperature during operation -20 +60 °C eduring storage -55 +80 °C	General technical data	
power loss [W] for rated value of the current at AC in hot operating state 0.0.01 W at AC in hot operating state per pole 0.0.1 W without load current share typical 2.9 W insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 600 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 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 type of assignment contacts of a A 230 V typical 200 000 type of assignment contacts of a C 230 V typical 200 000 type of assignment contacts of a A 24 V typical 200 000 type of assignment contacts of a A 24 V typical 200 000 type of assignment contacts of a A 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) 55/01/2012 SVHC substance name Lead 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead 1tanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum 200 m ambient temperature during operation -20 +60 °C during operation -20 +60 °C eduring storage -55 +80 °C	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 linsulation voltage rated value degree of pollution surge voltage resistance rated value 6900 V degree of pollution 3 surge voltage resistance rated value 6000 V maximum permissible voltage for protective separation between main and auxiliary circuit 500 V between auxiliary and auxiliary circuit 500 V between control share auxiliary circuit 500 V between control share auxiliary circuit 500 V between control and auxiliary circuit 500 V between control and auxiliary circuit 500 V between control and auxiliary circuit 500 V 500 V 500 V 500 V 600	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 aurge voltage resistance rated value between grain and auxiliary circuit between main and auxiliary circuit between control new Arating shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes 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 AC-15 at 6 A at 23 V typical ontinous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Qubstance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead - 74	power loss [W] for rated value of the current	
without load current share typical insulation voltage rated value 690 V	 at AC in hot operating state 	0.01 W
insulation voltage rated value degree of pollution 3 surge voltage resistance rated value 6 000 V maximum permissible voltage for protective separation • between main and auxiliary circuit • between main and auxiliary circuit • between control and auxiliary circuit 400 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 mechanical service life (operating cycles) • of the main contacts typical • of auxiliary 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 20 000 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 Freference code according to IEC 81346-2 Q Substance Prohibitance (Date) 5VHC substance name Lead -7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature 4 during operation 5 - 20 +60 °C 5 +80 °C	 at AC in hot operating state per pole 	0.01 W
degree of pollution surge voltage resistance rated value maximum permissible voltage for protective separation • between main and auxiliary circuit • between control and auxiliary circuit shock resistance 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 23 V typical • at AC-15 at 6 A at 230 V typical vontinous operation according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Canada Arabient conditions installation altitude at height above sea level maximum • during operation • during storage • during storage 6 000 V 400 V	 without load current share typical 	2.9 W
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 • 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 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 20 on 000 • of the 3 at 6 A at 24 V 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 • ontinous operation according to IEC 60947-6-2 treference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum • during operation • during operation • during storage 6 000 V 400	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 • between control and auxiliary circuit 300 V degree 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 signaling contacts typical • of the signaling contacts typical • at DC-13 at 6 A at 24 V typical • at DC-13 at 6 A at 24 V typical • at AC-15 at 6 A at 230 V typical	degree of pollution	3
between main and auxiliary circuit between auxiliary and auxiliary circuit between control and auxiliary circuit other other of protection NEMA rating other shock resistance mechanical service life (operating cycles) of 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 at 24 V typical at 20 000 electrical endurance (operating cycles) of auxiliary contacts at 24 V typical at 25 000 of at AC-15 at 6 A at 230 V typical type of assignment continous operation according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead -7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation of the signaling circuit and 000 000 type of assignment continous operation according to IEC 60947-6-2 Q Substance Prohibitance (Date) installation altitude at height above sea level maximum ambient temperature of during operation of uning storage other association circuit according to IEC 80947-8-2 continous operation according to IEC 60947-6-2 Q Substance Prohibitance (Date) 2000 m	surge voltage resistance rated value	6 000 V
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 mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical of the signaling contacts of the signaling contacts typical of the signaling contacts of the signaling contacts typical of the signaling contacts	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 mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical of the signaling contacts t	 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 mechanical service life (operating cycles) of the main contacts typical for dauxiliary contacts typical for the signaling contacts	 between auxiliary and auxiliary circuit 	250 V
shock resistance mechanical service life (operating cycles) of the main contacts typical of the signaling contacts of the signaling contac	 between control and auxiliary circuit 	300 V
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 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 • ontinous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -55 +80 °C	degree of protection NEMA rating	other
of the main contacts typical of auxiliary contacts typical of the signaling contacts typical one typical one typical one typical one typical one 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 Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation one typical typical one	shock resistance	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes
of auxiliary contacts typical of the signaling contacts typical of the signaling contacts typical of 000 000 of	mechanical service life (operating cycles)	
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 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 Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum ambient temperature o during operation	of the main contacts typical	10 000 000
electrical endurance (operating cycles) of auxiliary contacts • at DC-13 at 6 A at 24 V typical • 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) 5VHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -20 +60 °C -55 +80 °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 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation -20 +60 °C during storage -55 +80 °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) 5VHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum ambient temperature olduring operation during storage 200 000 -20 +60 °C -55 +80 °C	electrical endurance (operating cycles) of auxiliary contacts	
type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum ambient temperature o during operation during storage continous operation according to IEC 60947-6-2 Q Q 2000 m 2000 m	• 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 Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation during storage Q 05/01/2012 Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions 2 000 m -20 +60 °C -55 +80 °C	• at AC-15 at 6 A at 230 V typical	200 000
Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum ambient temperature o during operation other during storage 05/01/2012 Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions - 20 00 m - 20 +60 °C - 55 +80 °C	type of assignment	continous operation according to IEC 60947-6-2
SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation • during storage -20 +60 °C • during storage	reference code according to IEC 81346-2	Q
Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 2 000 m -20 +60 °C -55 +80 °C	Substance Prohibitance (Date)	05/01/2012
installation altitude at height above sea level maximum ambient temperature during operation during storage 2 000 m -20 +60 °C -55 +80 °C	SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8
ambient temperature • during operation • during storage -20 +60 °C -55 +80 °C	Ambient conditions	
 during operation during storage -20 +60 °C -55 +80 °C 	installation altitude at height above sea level maximum	2 000 m
• during storage -55 +80 °C	ambient temperature	
	during operation	-20 +60 °C
• during transport -55 +80 °C	during storage	-55 +80 °C
		-55 +80 °C
relative humidity during operation 10 90 %		10 90 %
Main circuit		

number of noise for main current circuit	3
number of poles for main current circuit	0.1 0.4 A
adjustable current response value current of the current- dependent overload release	0.1 0.4 A
formula for making capacity limit current	120 x le
formula for limit current breaking capacity	100 x le
yielded mechanical performance for 4-pole AC motor	
at 400 V rated value	0.09 kW
at 500 V rated value	0.12 kW
at 690 V rated value	0.18 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
at AC at 400 V rated value	0.4 A
at AC-3 at 400 V rated value	0.4 A
• at AC-43	0.771
— at 400 V rated value	0.3 A
— at 500 V rated value	0.32 A
— at 690 V rated value	0.35 A
	0.35 A
operating power	0.00 kW
at AC-3 at 400 V rated value at AC-43	0.09 kW
• at AC-43	00 W
— at 400 V rated value	90 W
— at 500 V rated value	120 W
— at 690 V rated value	180 W
no-load switching frequency	3 600 1/h
operating frequency	
 at AC-41 according to IEC 60947-6-2 maximum 	750 1/h
at AC-43 according to IEC 60947-6-2 maximum	250 1/h
Control circuit/ Control	
type of voltage	AC/DC
control supply voltage 1 at AC	
at 50 Hz rated value	24 V
● at 50 Hz	24 24 V
at 60 Hz rated value	24 V
• at 60 Hz	24 V
control supply voltage frequency	
• 1 rated value	50 Hz
1 rated value2 rated value	50 Hz 60 Hz
2 rated value	
2 rated value control supply voltage 1 at DC	60 Hz
2 rated value control supply voltage 1 at DC rated value	60 Hz
2 rated value control supply voltage 1 at DC rated value	60 Hz
2 rated value control supply voltage 1 at DC rated value holding power	60 Hz 24 V 24 24 V
2 rated value control supply voltage 1 at DC • rated value • holding power • at AC maximum • at DC maximum	24 V 24 24 V 2.8 W
2 rated value control supply voltage 1 at DC • rated value • holding power • at AC maximum • at DC maximum Auxiliary circuit	24 V 24 24 V 2.8 W
2 rated value control supply voltage 1 at DC rated value holding power at AC maximum at DC maximum Auxiliary circuit number of NC contacts for auxiliary contacts	60 Hz 24 V 24 24 V 2.8 W 2.9 W
2 rated value control supply voltage 1 at DC • rated value • holding power • at AC maximum • at DC maximum Auxiliary circuit	60 Hz 24 V 24 24 V 2.8 W 2.9 W
• 2 rated value control supply voltage 1 at DC • rated value • holding power • at AC maximum • at DC maximum Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for	24 V 24 24 V 2.8 W 2.9 W
• 2 rated value control supply voltage 1 at DC • rated value • holding power • at AC maximum • at DC maximum Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload	24 V 24 24 V 2.8 W 2.9 W
• 2 rated value control supply voltage 1 at DC • rated value • holding power • at AC maximum • at DC maximum Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact	24 V 24 24 V 2.8 W 2.9 W 1 1 1
control supply voltage 1 at DC	60 Hz 24 V 24 24 V 2.8 W 2.9 W 1 1 1 1 1 1
control supply voltage 1 at DC	60 Hz 24 V 24 24 V 2.8 W 2.9 W 1 1 1 1 1 1
control supply voltage 1 at DC	60 Hz 24 V 24 24 V 2.8 W 2.9 W 1 1 1 1 1 1 10 A 0.27 A
• 2 rated value control supply voltage 1 at DC • rated value • holding power • at AC maximum • at DC maximum Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for signaling contact number of CO contacts of the current-dependent overload release for signaling contact operational current of auxiliary contacts at AC-12 maximum operational current of auxiliary contacts at DC-13 at 250 V Protective and monitoring functions trip class	60 Hz 24 V 24 24 V 2.8 W 2.9 W 1 1 1 1 1 1 10 A 0.27 A
orated value o	24 V 24 24 V 2.8 W 2.9 W 1 1 1 1 1 CLASS 10 and 20 adjustable
orated value	24 V 24 24 V 2.8 W 2.9 W 1 1 1 1 1 CLASS 10 and 20 adjustable 53 kA 3 kA
orated value	24 V 24 24 V 2.8 W 2.9 W 1 1 1 1 1 CLASS 10 and 20 adjustable 53 kA
ontrol supply voltage 1 at DC	24 V 24 24 V 2.8 W 2.9 W 1 1 1 1 1 CLASS 10 and 20 adjustable 53 kA 3 kA
ontrol supply voltage 1 at DC	24 V 24 24 V 2.8 W 2.9 W 1 1 1 1 1 CLASS 10 and 20 adjustable 53 kA 3 kA

• at 600 V rated value	0.4 A
contact rating of auxiliary contacts according to UL	contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 77-78 R300 / B300, contacts 95-96-98 R300 / D300
Short-circuit protection	
product function short circuit protection	Yes
design of short-circuit protection	electromagnetic
design of the fuse link	
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
 for short-circuit protection of the signaling switch of the short-circuit release required 	6A gL/gG/400V
 for short-circuit protection of the signaling switch of the overload release required 	4A gL/gG/400V
Installation/ mounting/ dimensions	
mounting position	any
mounting position 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	Yes
control circuit	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	plug-in without 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	
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	50 %
B10 value with high demand rate according to SN 31920	3 000 000
	100 FIT
failure rate [FIT] with low demand rate according to SN 31920	100111
IEC 61508	
T1 value for proof test interval or service life according to IEC 61508	20 a
Electrical Safety	
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
·	No
product function control circuit interface with IO link	NO
Electromagnetic compatibility	
conducted interference	All Visiting and the Old Annual Control
• 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
	2 kV main contacts, 1 kV auxiliary contacts
 due to conductor-conductor surge according to IEC 61000-4-5 	
	0.15-80Mhz at 10V
61000-4-5 ■ due to high-frequency radiation according to IEC 61000-	0.15-80Mhz at 10V 10 V/m

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	

Seneral Product Approva



Confirmation









EMV

Functional Saftey

Test Certificates

Marine / Shipping













other

Dangerous Good

Environment

Confirmation

Transport Information

Environmental Confirmations

Further information

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=3RA6120-1AB34

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6120-1AB34

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-1AB34

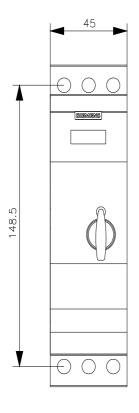
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

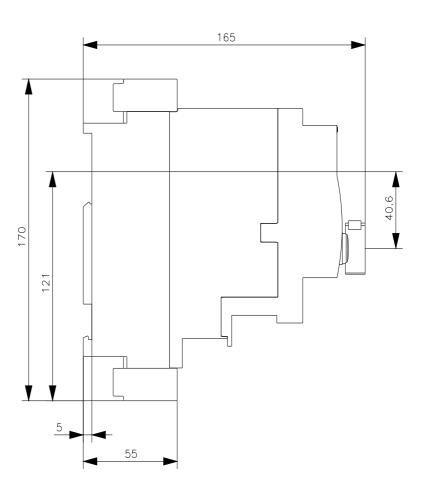
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6120-1AB34&lang=en

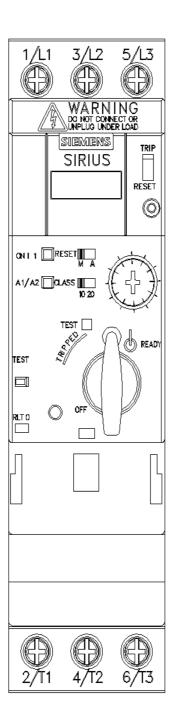
Characteristic: Tripping characteristics, I2t, Let-through current

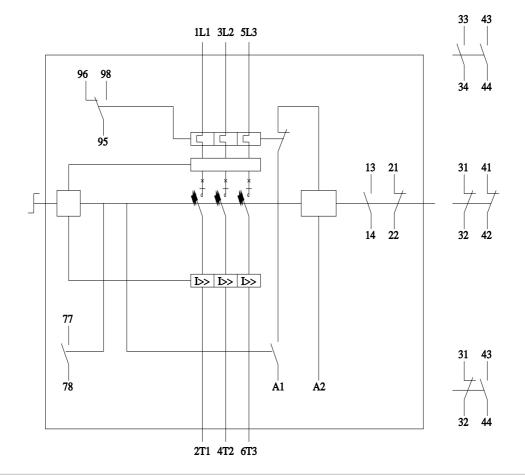
https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-1AB34/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6120-1AB34&objecttype=14&gridview=view1









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