SIEMENS

Data sheet 3RA6120-0AB30



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

product brand name product designation compact starter design of the product product type designation General tochnical data product function control circuit interface to parallel wiring product starter product function control circuit interface to parallel wiring product extension auxiliary switch • 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 • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • of the main contacts typical • of the signaling contact t		
design of the product product type designation SRA61 General tochnical data product function control circuit interface to parallel wiring product extension auxiliary switch at AC in hot operating state at AC in hot operating state per pole wirhout bad current share typical evidence of pollution Surge voltage resistance rated value degree of pollution between main and auxiliary circuit between main and auxiliary circuit between auxiliary and auxiliary circuit between auxiliary and auxiliary circuit between auxiliary and auxiliary circuit between control and auxiliary circuit between main and auxiliary circuit between main and surge and auxiliary circuit between surge voltage auxiliary and auxiliary circuit between control and auxiliary circuit between surge of protection NEMA rating shock resistance mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical at AC-15 at 6 A at 24 ty	product brand name	SIRIUS
Product type designation SPA61	product designation	compact starter
Concral 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 event of the control of the current at Control of the control of the current at Control	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	product type designation	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 689 V degree of pollution 3 surge voltage resistance rated value 6690 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) 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 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 200 000 • of the signaling contact 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) 505/1/2012 SVHC substance name Lead -7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead timulium zirconium oxide - 12626-81-2 Ambient conditions 200 00 m ambient temperature 4 utring operation 200 00 m ambient temperature 4 utring operation 55 +80 "C 4 utring transport 55 +80 "C	General technical data	
power loss [W] for rated value of the current at AC in hot operating state e at AC in hot operating state per pole awithout load current share typical 2.9 W Insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6000 V maximum permissible voltage for protective separation between main and auxiliary circuit 250 V between auxiliary and auxiliary circuit 250 V between control and auxiliary circuit 300 V degree of protection NEMA rating other of the main contacts typical and contacts typical 10000 000 of the signaling contacts typical 10000 000 electrical endurance (operating cycles) of auxiliary contacts at DC-13 at 6 A at 24 V typical 200000 type of assignment contacts at 24 V typical 200000 sybrid assignment contacts and	product function control circuit interface to parallel wiring	Yes
at AC in hot operating state per pole at AC in hot operating state per pole without load current share typical sugges of pollution surge voltage read value 690 V degree of pollution 3 surge voltage resistance rated value 6000 V maximum permissible voltage for protective separation between auxiliary and auxiliary circuit 400 V between auxiliary and auxiliary circuit between auxiliary and auxiliary circuit between auxiliary and auxiliary circuit between control and auxiliary circuit between control and auxiliary circuit between diffe (perating cycles) of the main contacts typical of auxiliary contacts typical of the main contacts typical of the signaling contacts typical of auxiliary contacts typical of auxiliary contacts typical at AC-15 at 6 A at 230 V typical electrical endurance (operating cycles) of auxiliary contacts at AC-15 at 6 A at 230 V typical expected according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Ambient conditions installation altitude at height above sea level maximum a Unity gorgation during storage during transport e during operation during transport e during poreation during transport felative humidity during operation 10 90 %	product extension auxiliary switch	Yes
at AC in hot operating state per pole without load current share typical insulation voltage rated value degree of pollution surge voltage rosistance rated value above voltage rosistance rated value between amin and auxiliary circuit between auxiliary and auxiliary circuit between auxiliary and auxiliary circuit between control and auxiliary cycles) ale of the main contacts typical between control and auxiliary cycles) between cycles of auxiliary cycles) between cycles of auxiliary cycles and one of the signaling contacts typical between cycles of auxiliary cycles and one of the signaling contacts typical between cycles of auxiliary cycles and one of the signaling contacts typical between cycles of auxiliary cycles and one of the signaling cycles an	power loss [W] for rated value of the current	
insulation voltage rated value degree of pollution surge voltage resistance rated value between main and auxiliary circuit between auxiliary cortection NEMA rating shock resistance mechanical service life (operating cycles) of the main contacts typical of the signaling contacts typical of the signaling contacts typical at AC-15 at 6 A at 24 V typical at AC-15 at 6 A at 230 V typical cat AC-15 at 6 A at 230 V typical standard at AC-15 at 6 A at 230 V typical ca	 at AC in hot operating state 	0.01 W
insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6000 V maximum permissible voltage for protective separation • between main and auxiliary circuit 400 V • between auxiliary and auxiliary circuit 250 V • between control and auxiliary circuit 300 V degree of protection NEMA rating other sistance 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 auxiliary contacts typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts • at DC-13 at 6 A at 24 V typical 30 000 electrical endurance (operating cycles) of auxiliary contacts • at AC-15 at 6 A at 24 V typical 200 000 type of assignment continuous operation according to IEC 60947-6-2 gubstance Prohibitance (Date) 50/1/2012 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 2000 m ambient temperature • during operation - 20 +60 °C • during storage - 55 +80 °C • during transport - 55 +80 °C relative humidity during operation - 10 90 %	 at AC in hot operating state per pole 	0.01 W
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 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 • of the signaling contacts typical 20 000 000 • of the signaling contacts typical 200 000 • at AC-15 at 6 A at 230 V typical 200 000 type of assignment contacts at 42 V typical 200 000 type of assignment continous operation according to IEC 60947-6-2 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 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation20 +60 °C • during transport55 +80 °C relative humidity during operation 10 90 %	 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 • other 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 AC-15 at 6 A at 24 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • on this signal typical • on the continuous operation according to IEC 60947-6-2 Substance Prohibitance (Date) SVHC substance name Lead - 7433-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead ittainum zirconium oxide - 12626-81-2 Ambient conditions Installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport -20 +60 °C relative humidity during operation 10 90 %	insulation voltage rated value	690 V
maximum permissible voltage for protective separation • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance 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 Substance Prohibitance (Date) Substance Prohibitance (Date) Substance Prohibitance (Date) 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 storage • during transport 10 000 000 10 000 000 10 000 000 10 000 00	degree of pollution	3
 between main and auxiliary circuit between auxiliary 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 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 of auxiliary contacts 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 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 a during operation during storage during storage during storage during transport c55 +80 °C relative humidity during operation 10 90 % 	surge voltage resistance rated value	6 000 V
between auxiliary and auxiliary circuit between control and auxiliary circuit other shock resistance geof 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 signaline contacts typical of the sig	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 typical electrical endurance (operating cycles) of auxiliary contacts of at DC-13 at 6 A at 24 V typical on at AC-15 at 6 A at 230 V typical on at AC-15 at 6 A at 230 V typical on type of assignment reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SYHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead itlanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation of during storage oduring transport of during transport of during transport of during operation of the main condition of the maximum of the conditions are of the main conditions calculation altitude at height above sea level maximum of the main conditions are of the m	 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 of auxiliary contacts typical of the signaling cycles) of auxiliary contacts at DC-13 at 6 A at 24 V typical at AC-15 at 6 A at 230 V typical at AC-15 at 6 A at 230 V typical continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Quotono 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 uning storage of during transport -55 +80 °C of uning transport -55 +80 °C relative humidity during operation 10 90 %	 between auxiliary and auxiliary circuit 	250 V
shock resistance mechanical service life (operating cycles) of the main contacts typical of the signaling	 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 th	degree of protection NEMA rating	other
 of the main contacts typical 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 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 2 000 m ambient temperature during operation -20 +60 °C during storage during transport relative humidity during operation 10 90 % 	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 the signaling contacts typical electrical endurance (operating cycles) of auxiliary contacts o at DC-13 at 6 A at 24 V typical o at AC-15 at 6 A at 230 V typical one 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 our +60 °C ouring storage ouring transport relative humidity during operation 10 90 %	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 • 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) 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 • during storage • during transport relative humidity during operation 10 90 %	 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) 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 -20 +60 °C • during storage • during transport -55 +80 °C relative humidity during operation 10 90 %	 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) 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 during storage -55 +80 °C relative humidity during operation 10 90 %	 of the signaling contacts typical 	10 000 000
at AC-15 at 6 A at 230 V typical type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name 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 during storage during storage during transport relative humidity during operation 10 90 %	electrical endurance (operating cycles) of auxiliary contacts	
type of assignment 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 oduring storage oduring transport elduring transport relative humidity during operation 10 90 %	• 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 during operation during storage during storage during transport relative humidity during operation 10 90 %	• 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 during operation during storage during storage during transport relative humidity during operation 10 90 %	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 ambient temperature during operation during storage during storage during transport relative humidity during operation 10 90 %	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 during transport elative humidity during operation Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 2 000 m -20 +60 °C -55 +80 °C -55 +80 °C 10 90 %	Substance Prohibitance (Date)	05/01/2012
installation altitude at height above sea level maximum ambient temperature during operation during storage during transport relative humidity during operation 2 000 m -20 +60 °C -55 +80 °C -55 +80 °C 10 90 %	SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8
ambient temperature • during operation • during storage • during transport -55 +80 °C relative humidity during operation -20 +60 °C -55 +80 °C -55 +80 °C	Ambient conditions	
 during operation during storage turing transport telative humidity during operation 	installation altitude at height above sea level maximum	2 000 m
 during storage during transport relative humidity during operation -55 +80 °C 10 90 % 	ambient temperature	
● during transport -55 +80 °C relative humidity during operation 10 90 %	during operation	-20 +60 °C
relative humidity during operation 10 90 %	during storage	-55 +80 °C
relative humidity during operation 10 90 %	during transport	-55 +80 °C
Main circuit	relative humidity during operation	10 90 %

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	100 11111
product component removable terminal for main circuit	Yes
product component removable terminal for main circuit	Yes
control circuit	165
type of electrical connection	
for main current circuit	plug-in without terminals
for auxiliary and control circuit	plug-in without terminals
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
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
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	
	No
 AS-Interface protocol 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
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	
Approvato continuates	





Confirmation







EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







other

Dangerous Good

Environment

Confirmation

Transport Information

Environmental Confirmations

Further information

Information on the packaging

.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=3RA6120-0AB30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6120-0AB30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-0AB30

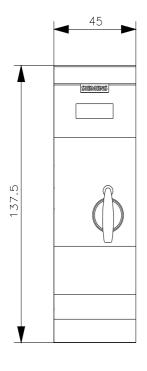
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

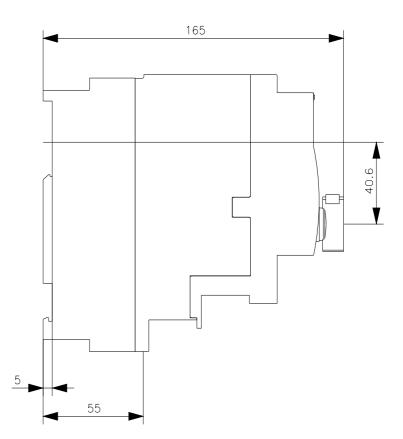
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6120-0AB30&lang=en

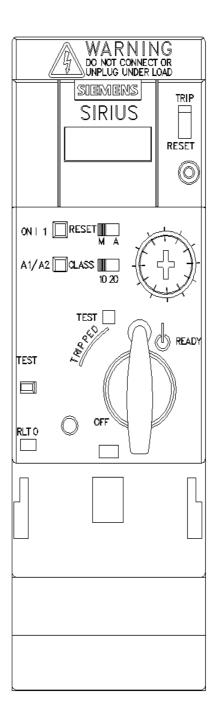
Characteristic: Tripping characteristics, I2t, Let-through current

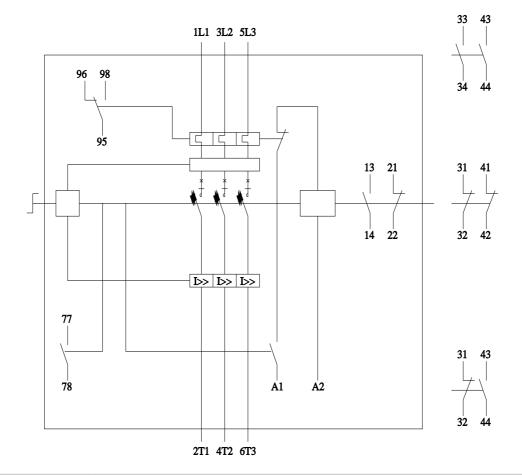
https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-0AB30/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6120-0AB30&objecttype=14&gridview=view1









last modified: 3/11/2024 🖸