SIEMENS

Data sheet 3RA6120-0EP30



SIRIUS Compact load feeder DOL starter 690 V 110...240 V AC/DC 50...60 Hz 8...32 A IP20 Connection main circuit: plug-in, without terminals Connection auxiliary circuit: plug-in, without terminals

product brand name product designation compact starler design of the product product type designation General technical data product function control circuit interface to parallel wiring product extension auxiliary switch ***Product function control circuit interface to parallel wiring product extension auxiliary switch ***Product function control circuit interface to parallel wiring product extension auxiliary switch ***Product function control circuit interface to parallel wiring product extension auxiliary switch ***Product function control circuit interface to parallel wiring product extension auxiliary switch ***Product function control circuit interface to parallel wiring ***Product function control circuit interface to parallel wiring ***Product function control circuit of the current ***Product function data function ***Product function data function ***Product function data function ***Product function data function ***Product function		
design of the product product type designation SRA61 General tochincla data product function control circuit interface to parallel wiring product extension auxillary switch at AC in hot operating state at AC in hot operating state per pole awithout bad current share typical awithout bad current share typical between or pollution between main and auxillary circuit between main and auxillary circuit between control and auxillary circuit between main and sulfilary circuit between main and sulfilary circuit between nontrol and auxillary circuit between control and auxillary circuit between main contacts typical of anxillary contacts typical of anxillary contacts typical of auxillary contacts typical of the signaling contacts typical of auxillary contacts typical of the main contacts of typical of the main contacts of typical of the main contacts typical of the main contacts typical of the main contacts of typical of the main contacts of typical of the main contacts of typical of the ma	product brand name	SIRIUS
Product type designation SPA61	product designation	compact starter
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 5.4 W at AC in hot operating state 5.8 W switch to ado current share typical 5.8 W surge voltage resistance rated value 690 V surger of pollution 3 course share stypical 6000 V surger existance rated value 6000 V surger existance rated value 6000 V surger existance rated value 7000 V surger voltage resistance rated value 7000 V surger voltage resistance rated value 7000 V surger voltage resistance rated value 7000 V surger voltage for protective separation 8000 V surger voltage rated value 8000 V surger voltage resistance 8000 v surger voltage 8000 v surger voltage resistance 8000 v surger voltage 8000 v surger	design of the product	direct starter
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 5.4 W • at AC in hot operating state pepple 1.8 W without load current share typical 5.8 W insulation voltage rated value 690 V degree of pollution 3	product type designation	3RA61
product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state estable to the current • at AC in hot operating state per pole table without load current share typical to each Cin hot operating state per pole table without load current share typical to saw without load current share without load current share without load to saw without load current share without load to saw without load current share without load to saw without lo	General technical data	
power loss [W] for rated value of the current at AC in hot operating state per pole at AC in hot operating state per pole without load current share typical surge voltage rated value degree of pollution surge voltage resistance rated value 600 V maximum permissible voltage for protective separation between main and auxiliary circuit between main and auxiliary circuit between control and auxiliary circuit between ontrol and auxiliary circuit between order of auxiliary order 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 at AC-15 at 6 A at 230 V typical at AC-15 at 6 A at 230 V typical cat AC-15 at 6 A at 230 V typical between ode according to IEC 81346-2 Substance Prohibitance (Date) SYHC substance name Lead - TA39-92-1 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 during operation during	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 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 between control and auxiliary circuit between diffe (operating cycles) of the main contacts typical of auxiliary contacts typical of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical of the signaling contacts typical of the 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 extra AC-15 at 6 A at 230 V typical Sype of assignment continous operation according to IEC 80947-6-2 Gubstance Prohibitance (Date) SyHC substance name Lead - 7439-92-1 Ambient conditions installation altitude at height above sea level maximum a during storage during storage during transport e during operation during storage during transport e during operation during transport fealtive 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 resistance rated value • between grain and auxiliary circuit • between main and auxiliary circuit • between main and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit • between surice life (operating cycles) • of the main contacts typical • 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 230 V typica	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 circuit between auxiliary circuit between control and auxiliary circuit between control and auxiliary circuit cegree 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 at DC-13 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 continous operation according to IEC 81346-2 Quustance Prohibitance (Date) SVHC substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead monoxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum abient temperature during operation - 20 +60 °C - during operation - 20 +60 °C - during transport - 55 +80 °C - during transport - 55 +80 °C - felative humidity during operation - 10 90 %	 at AC in hot operating state 	5.4 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 auxiliary and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit 300 V • degree of protection NEMA rating there is stance 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 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 typical • of auxiliary contacts typic	 at AC in hot operating state per pole 	1.8 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 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 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 200 000 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 Treference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 SVHC substance name Lead 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation • during storage • during storage • during storage • during transport relative humidity during operation 10 90 %	 without load current share typical 	5.8 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 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 • on the continuous operation according to IEC 60947-6-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead intainum 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 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 DC-13 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • oon time to a coording to IEC 81346-2 Substance Prohibitance (Date) SUSHStance Prohibitance (Date) SUSHStance Prohibitance (Date) SUSHSTANCE AND SUSH AND SUS	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 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) 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 operation -20 +60 °C during storage -55 +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 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 auxiliary contacts typical of the signaling contacts of the main contacts typical	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 the signaling contact	 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 Qubstance 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 main condition of the con	 between auxiliary and auxiliary circuit 	250 V
shock resistance mechanical service life (operating cycles) of the main contacts typical of the main contacts typical 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 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 30 000 at AC-15 at 6 A at 230 V typical 200 000 type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 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 the signaling to IEC 81346-2 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 oduring operation oduring storage oduring storage oduring 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) 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 ambient temperature ● during operation	 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 olduring storage olduring transport continous operation according to IEC 60947-6-2 Q Q 200 00 10 05/01/2012 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 olduring operation -20 +60 °C -55 +80 °C 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 %
	Main circuit	

number of noise for main current circuit	3
number of poles for main current circuit	8 32 A
adjustable current response value current of the current- dependent overload release	0 02 M
formula for making capacity limit current	12 x le
formula for limit current breaking capacity	10 x le
yielded mechanical performance for 4-pole AC motor	
• at 400 V rated value	15 kW
at 500 V rated value	11 kW
at 690 V rated value	11 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
 at AC at 400 V rated value 	32 A
 at AC-3 at 400 V rated value 	32 A
• at AC-43	
— at 400 V rated value	29 A
— at 500 V rated value	17.6 A
— at 690 V rated value	12.8 A
operating power	
 at AC-3 at 400 V rated value 	15 kW
• at AC-43	
— at 400 V rated value	15 000 W
— at 500 V rated value	11 000 W
— at 690 V rated value	11 000 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	40/00
type of voltage	AC/DC
control supply voltage 1 at AC	240.1/
at 50 Hz rated value	240 V
• at 50 Hz • at 60 Hz	110 240 V 110 240 V
control supply voltage frequency	110 240 V
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage 1 at DC	
• rated value	240 V
▼ Ialeu value	
• rated value	110 240 V
•	
• holding power	110 240 V
holding power at AC maximum	110 240 V 5.2 W
holding power at AC maximum at DC maximum	110 240 V 5.2 W
holding power at AC maximum at DC maximum Auxiliary circuit	110 240 V 5.2 W 5.8 W
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	110 240 V 5.2 W 5.8 W
holding power at AC maximum at DC maximum Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	110 240 V 5.2 W 5.8 W
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	110 240 V 5.2 W 5.8 W 1 1 1 1
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	110 240 V 5.2 W 5.8 W 1 1 1 1 1 1
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	110 240 V 5.2 W 5.8 W 1 1 1 1
holding power	110 240 V 5.2 W 5.8 W 1 1 1 1 1 1 0 A 0.27 A
holding power	110 240 V 5.2 W 5.8 W 1 1 1 1 1 1
holding power	110 240 V 5.2 W 5.8 W 1 1 1 1 1 1 CLASS 10 and 20 adjustable
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 operating short-circuit current breaking capacity (Ics) at 400 V rated value	110 240 V 5.2 W 5.8 W 1 1 1 1 1 1 CLASS 10 and 20 adjustable 53 kA
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 operating short-circuit current breaking capacity (Ics) at 400 V rated value at 500 V rated value	110 240 V 5.2 W 5.8 W 1 1 1 1 1 CLASS 10 and 20 adjustable 53 kA 1 kA
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 operating short-circuit current breaking capacity (Ics) at 400 V rated value at 500 V rated value at 690 V rated value	110 240 V 5.2 W 5.8 W 1 1 1 1 1 1 CLASS 10 and 20 adjustable 53 kA
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 operating short-circuit current breaking capacity (Ics) at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value	110 240 V 5.2 W 5.8 W 1 1 1 1 1 CLASS 10 and 20 adjustable 53 kA 1 kA
holding power	110 240 V 5.2 W 5.8 W 1 1 1 1 1 1 CLASS 10 and 20 adjustable 53 kA 1 kA 1 kA
holding power	110 240 V 5.2 W 5.8 W 1 1 1 1 1 CLASS 10 and 20 adjustable 53 kA 1 kA

• at 200/208 V rated value	7.5 hp
• at 220/230 V rated value	10 hp
• at 460/480 V rated value	20 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
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 control circuit	Yes
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	2 000 000
failure rate [FIT] with low demand rate according to SN	100 FIT
31920	
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
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

General Product Approval

Confirmation











EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







other

Dangerous Good

Environment

Confirmation

Transport Information

Environmental Confirmations

Information on the packaging

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA6120-0EP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6120-0EP30

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

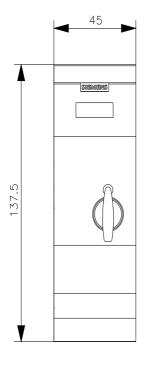
https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-0EP30

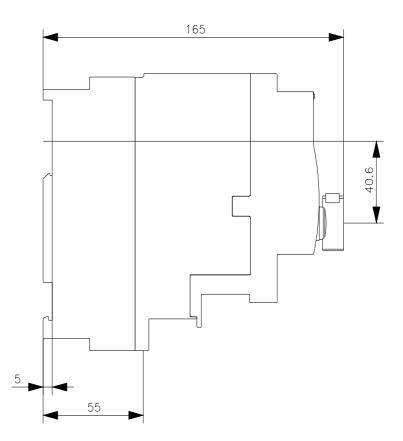
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6120-0EP30&lang=en

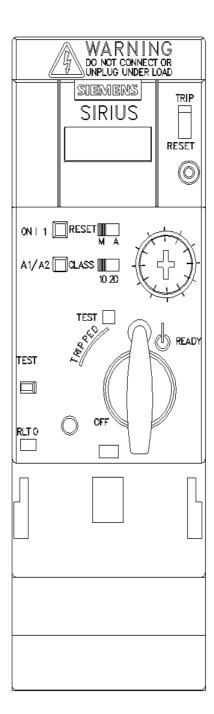
Characteristic: Tripping characteristics, I2t, Let-through current

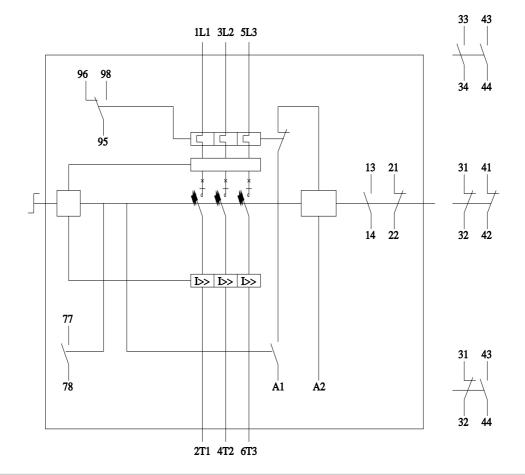
https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-0EP30/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6120-0EP30&objecttype=14&gridview=view1









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