SIEMENS

Data sheet 3RA6120-2AP32



SIRIUS Compact load feeder DOL starter 690 V 110...240 V AC/DC 50...60 Hz 0.1...0.4 A IP20 Connection main circuit: Spring-type terminal Connection auxiliary circuit: Spring-type terminal

product designation design of the product designation direct starter direct starter direct starter product type designation direct starter direct starter product type designation auxiliary switch yes product extension auxiliary switch yes power loss [W] for rated value of the current explain at AC in hot operating state on the current explain designation of the current explain starter spical designation explain starter spical explain explain spical explain		CIP. I C
design of the product product type designation 3RA61 General tochnical data product function control circuit interface to parallel wiring product stension auxiliary switch • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical • degree of pollution 3 Insulation voltage rated value • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • of the main contacts typical • of the main contacts typical • of the signaling contacts typical • of auxiliary contacts typical • of auxiliary 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 24 V typical • at AC-15 at 6 A at 24 V typical • at AC-15 at 6 A at 24 V typical • at AC-15 at 6 A at 24 V typical • at AC-15 at 6 A at 24 V typical • at AC-15 at 6 A at 24 V typical • at AC-15 at 6 A at 24 v typical • at AC-15 at 6 A at 24 v typical • at AC-15 at 6 A at 24 v typical • at AC-15 at 6 A at 24 v typical • at AC-15 at 6 A at 24 v typical • at AC-15 at 6 A at 24 v typical • at AC-15 at 6 A at 24 v typical • at AC-15 at 6 A at 24 v typical • at AC-15 at 6 A at 24 v typical • at AC-15 at 6 A at 24 v typical • at AC-15 at 6 A at 24 v typical • at AC-15 at 6 A at 24 v typical • at AC-15 at 6 A at 24 v typical	product brand name	SIRIUS
product type designation SRA61	. •	·
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 surge voltage resistance rated value 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 control and auxiliary circuit between control and auxiliary circuit between order of the function of the func		
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 • gog v degree of pollution surge voltage resistance rated value • gog v degree of pollution • 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 • between control and auxiliary circuit • of the main contacts typical • of the main contacts typical • of the main contacts typical • of the signaling contacts typical • at AC-15 at 6 A at 24 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • 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 • 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 • at AC-15 at 6 A at 24 V typical • at AC-15 at 6 A at 24 V typical • at AC-15 at 6 A at 24 V typical • at AC-15 at 6 A at 24 V typical • at AC-15 at 6 A at 24 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 24 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical • at AC-15 at 6 A at 250 V typical •		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 6 W insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6 000 V maximum permissible voltage for protective separation • between main and auxiliary circuit 250 V • between auxiliary and auxiliary circuit 300 V degree of protection NEMA rating 0ther • 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 200 000 type of assignment continuous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q SUbstance Prohibitance (Date) 5501/2012 SVHC substance name Lead - 7439-92 Lead thanium zirconium oxide - 12628-81-2 Ambient conditions Lead - 1317-36-8 Lead thanium zirconium oxide - 12628-81-2 Ambient conditions 200 mm 200 mm relative humidity during operation -20 +60 °C • during storage -55 +80 °C • during transport -55 +80 °C • during transport -55 +80 °C • during transport -55 +80 °C	General technical data	
power loss [W] for rated value of the current at AC in hot operating state can be at AC in hot operating state per pole to the first per pole of without load current share typical to the work of the state of the work of t	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 funulation voltage rated value finsulation voltage rated value finsulation voltage rated value finsulation voltage resistance rated value finsuper voltage for protective separation finsuper voltage for voltage vol	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 6 000 V maximum permissible voltage for protective separation between main and auxiliary circuit 5 between auxiliary and auxiliary circuit 5 between control and auxiliary circuit 5 between control and auxiliary circuit 6 between control and auxiliary circuit 7 between control and auxiliary circuit 8 between control and auxiliary circuit 8 between control and auxiliary circuit 9 between control and auxiliary circuit 9 between control and auxiliary circuit 10 000 000 10 cf the main contacts typical 10 000 000 10 degree of protection NEMA rating 10 000 000 10 degree of protection xema control typical 10 000 000 10 degree of protection xema control typical 10 000 000 10 degree of protection xema control typical 10 000 000 10 000 000 10 degree of protection xema control typical 10 000 000 10 000 000 10 000 000 10 000 00	power loss [W] for rated value of the current	
without load current share typical final insulation voltage rated value feepe of pollution surge voltage resistance rated value 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 orbin and auxiliary circuit between control nema rating between rating rating rating between control nema rating rating ratin	 at AC in hot operating state 	0.01 W
insulation voltage rated value degree of pollution surge voltage resistance rated value ### A00 V ### 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 degree of protection NEMA rating shock resistance #### a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes ###################################	 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 nuxiliary and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit • between control 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 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 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 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 transport - 20 +60 °C • during transport - 55 +80 °C relative humidity during operation 10 90 %	without load current share typical	6 W
surge voltage resistance rated value maximum permissible voltage for protective separation • between main 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 • of the 3 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 verificate endurance (operating cycles) of auxiliary contacts • at DC-13 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • onlinous operation according to IEC 60947-6-2 Terference code according to IEC 81346-2 Quuring transport Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead ittanium 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 • of the signaling contacts typical • of the signaling contacts typical • of the 5 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 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead itanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum • during storage • during poration • during storage • during transport relative humidity during operation 10 90 %	degree of pollution	3
between main and auxiliary circuit between auxiliary and auxiliary circuit between control and auxiliary circuit other 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 the signaling contacts typical of the main contacts typical of the main contacts typical of the main contacts typical of the signaling contacts typical of the main contacts ty	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 typical of auxiliary contacts of at DC-13 at 6 A at 24 V typical at DC-13 at 6 A at 230 V typical or at AC-15 at 6 A at 230 V typical or assignment continous 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 titanium zirconium oxide - 12626-81-2 Ambient conditions installation altitude at height above sea level maximum ouring operation ouring storage ouring storage ouring transport ouring transport relative humidity during operation 10 90 %	maximum permissible voltage for protective separation	
between control and auxiliary circuit degree of protection NEMA rating shock resistance mechanical service life (operating cycles) of the main contacts typical of the signaling contacts typical of the si	 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 the main contacts typical of the signaling contacts typical of the signaling contacts typical to 000 000 electrical endurance (operating cycles) of auxiliary contacts of the continuation of the signaling cycles) of auxiliary contacts of the continuation of the conti	 between auxiliary and auxiliary circuit 	250 V
shock resistance mechanical service life (operating cycles) of the main contacts typical of the signaling c	 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 -55 +80 °C 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 one and DC-13 at 6 A at 24 V typical one at AC-15 at 6 A at 230 V typical one at AC-15 at 6 A at 230 V typical one at AC-15 at 6 A at 230 V typical one at AC-15 at 6 A at 230 V typical one at AC-15 at 6 A at 230 V typical one at AC-15 at 6 A at 230 V typical one at AC-15 at 6 A at 230 V typical one at AC-15 at 6 A at 230 V typical one at AC-15 at 6 A at 230 V typical one at AC-15 at 6 A at 230 V typical one at AC-15 at 6 A at 230 V typical one at AC-15 at 6 A at 230 V typical one at AC-15 at 6 A at 230 V typical one at 200 000 one at AC-15 at 6 A at 230 V typical one at 200 A	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 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 -20 +60 °C o during storage o 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) 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 during transport -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 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 during storage during storage during transport -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 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 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 2 000 m ambient temperature during operation during storage during storage during transport eduring transport relative humidity during operation 10 90 %	type of assignment	continous 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 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 eduring 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 during transport telative humidity during operation -20 +60 °C -55 +80 °C 10 90 % 	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 %		-55 +80 °C
		10 90 %
mani on our	Main circuit	

number of poles for main current circuit	3
adjustable current response value current of the current-	0.1 0.4 A
dependent overload release	
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	
— at 400 V rated value	0.3 A
— at 500 V rated value	0.32 A
— at 690 V rated value	0.35 A
operating power	
at AC-3 at 400 V rated value	0.09 kW
• at AC-43	
— 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	- C 000 IIII
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	250 1/11
	AC/DC
type of voltage control supply voltage 1 at AC	ACIDO
at 50 Hz rated value	240 V
• at 50 Hz	110 240 V
• at 60 Hz	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	00 112
control supply voltage 1 at DC	
• rated value	240 \/
• rated value	240 V
•	240 V 110 240 V
• holding power	110 240 V
holding power ● at AC maximum	110 240 V 6 W
holding power at AC maximum at DC maximum	110 240 V
● holding power • at AC maximum • at DC maximum Auxiliary circuit	110 240 V 6 W 5.1 W
holding power at AC maximum at DC maximum Auxiliary circuit number of NC contacts for auxiliary contacts	110 240 V 6 W 5.1 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 6 W 5.1 W
holding power	110 240 V 6 W 5.1 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 6 W 5.1 W
holding power	110 240 V 6 W 5.1 W
holding power	110 240 V 6 W 5.1 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 operational current of auxiliary contacts at DC-13 at 250 V	110 240 V 6 W 5.1 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 6 W 5.1 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 Protective and monitoring functions	110 240 V 6 W 5.1 W 1 1 1 1 1 1 0 A 0.27 A
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	110 240 V 6 W 5.1 W 1 1 1 1 1 1 0 A 0.27 A
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)	110 240 V 6 W 5.1 W 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 6 W 5.1 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	110 240 V 6 W 5.1 W 1 1 1 1 1 CLASS 10 and 20 adjustable 53 kA 3 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 6 W 5.1 W 1 1 1 1 1 CLASS 10 and 20 adjustable 53 kA 3 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 at 690 V rated value	110 240 V 6 W 5.1 W 1 1 1 1 1 1 CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA
holding power	110 240 V 6 W 5.1 W 1 1 1 1 1 CLASS 10 and 20 adjustable 53 kA 3 kA

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	6A gL/gG/400V
short-circuit release required	5, (gi) go, 100 v
• for short-circuit protection of the signaling switch of the	4A gL/gG/400V
overload release required	
Installation/ mounting/ dimensions	
mounting position	any
mounting position recommended	vertical, on horizontal standard DIN rail
fastening method	screw and snap-on mounting
height	191 mm
width	45 mm
depth	165 mm
Connections/ Terminals	
product component removable terminal for main circuit	Yes
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
• for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1.5 6 mm²), 1x 10 mm²
 finely stranded with core end processing 	2x (1.5 6 mm²)
 finely stranded without core end processing 	2x (1.5 6 mm²)
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.25 1.5 mm²)
finely stranded with core end processing	2x (0.25 1.5 mm²)
finely stranded without core end processing	2x (0.25 1.5 mm²)
 for AWG cables for auxiliary contacts 	2x (24 16)
Safety related data	
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	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	
	4 kV main contacts 2 kV auviliany contacts
 due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 	4 kV main contacts, 2 kV auxiliary contacts
	4 kV main contacts, 2 kV auxiliary contacts
due to conductor-conductor surge according to IEC 61000-4-5 due to high frequency radiation according to IEC 61000.	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













other

Dangerous goods

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=3RA6120-2AP32

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6120-2AP32

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

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-2AP32}$

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

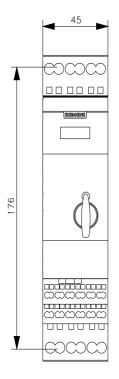
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6120-2AP32&lang=en

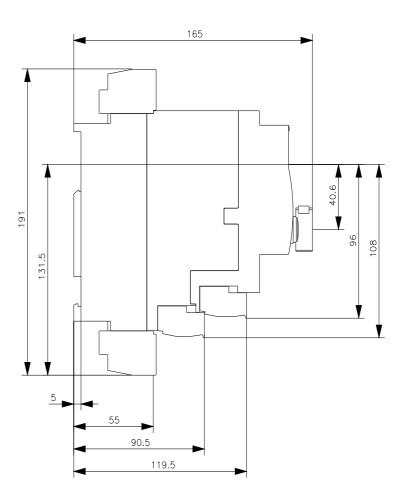
Characteristic: Tripping characteristics, I²t, Let-through current

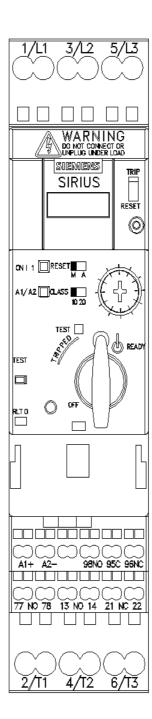
https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-2AP32/char

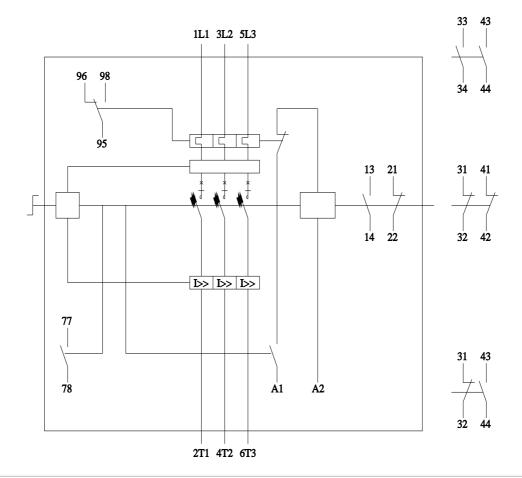
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6120-2AP32&objecttype=14&gridview=view1









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