SIEMENS

Data sheet 3RA6120-1BB33



SIRIUS Compact load feeder DOL starter 690 V 24 V AC/DC 50...60 Hz 0.32...1.25 A IP20 Connection main circuit: plug-in, without terminals Connection auxiliary circuit: screw terminal

SIRIUS		
compact starter		
direct starter		
3RA61		
General technical data		
Yes		
Yes		
0.1 W		
0.03 W		
2.9 W		
690 V		
3		
6 000 V		
400 V		
250 V		
300 V		
other		
a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes		
f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles		
10 000 000		
10 000 000		
10 000 000		
30 000		
200 000		
continous operation according to IEC 60947-6-2		
continues operation according to IEC 00947-0-2		
Q		
·		
Q		
Q		
Q 01.05.2012		
Q 01.05.2012		
Q 01.05.2012 2 000 m		
Q 01.05.2012 2 000 m -20 +60 °C		

Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the	0.32 1.25 A
current-dependent overload release	38.4 x le
formula for making capacity limit current	38.4 x ie 32 x le
formula for breaking capacity limit current	02 A IC
yielded mechanical performance for 4-pole AC motor • at 400 V rated value	0.37 kW
at 500 V rated value at 600 V rated value	0.55 kW
at 690 V rated value apprating voltage at AC 3 rated value maximum	0.75 kW 690 V
operating voltage at AC-3 rated value maximum operational current	
at AC at 400 V rated value	1.25 A
 at AC at 400 V rated value at AC-3 at 400 V rated value 	1.25 A 1.25 A
at AC-3 at 400 V rated valueat AC-43	1.20 A
at AC-43 — at 400 V rated value	1.1 A
— at 400 V rated value — at 500 V rated value	1.1 A 1.2 A
— at 500 V rated value — at 690 V rated value	1.2 A 1.1 A
operating power ■ at AC-3 at 400 V rated value	0.37 kW
at AC-3 at 400 V rated valueat AC-43	C.O. RVV
at AC-43 — at 400 V rated value	370 W
at 400 V rated value at 500 V rated value	370 W 550 W
at 500 V rated value at 690 V rated value	550 W 750 W
	3 600 1/h
no-load switching frequency operating frequency	
at AC-41 acc. to IEC 60947-6-2 maximum	750 1/h
 at AC-41 acc. to IEC 60947-6-2 maximum at AC-43 acc. to IEC 60947-6-2 maximum 	250 1/h
• at AC-43 acc. to IEC 60947-6-2 maximum Control circuit/ Control	200 1/11
	AC/DC
type of voltage control supply voltage 1 at AC	, will
at 50 Hz rated value	24 V
at 50 Hz rated value at 50 Hz	24 V 24 24 V
at 50 Hz at 60 Hz rated value	24 V
• at 60 Hz	24 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage 1	
• at DC rated value	24 V
• at DC	24 24 V
holding power	
at AC maximum	2.8 W
• at DC maximum	2.9 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of NO contacts of instantaneous short-circuit trip	1
unit for signaling contact	
number of CO contacts of the current-dependent overload release for signaling contact	1
operational current of auxiliary contacts at AC-12 maximum	10 A
operational current of auxiliary contacts at DC-13 at 250 V	0.27 A
Protective and monitoring functions	
trip class	CLASS 10 and 20 adjustable
breaking capacity operating short-circuit current (Ics)	
• at 400 V	53 kA
• at 500 V rated value	3 kA
• at 690 V rated value	3 kA

full-load current (FLA) for 3-phase AC motor at 480 V rated value at 800 V rated value at 80	UL/CSA ratings	
# # 480 V rited value		
# 1600 V rated value	• • •	1 25 Δ
yelded mechanical performance (hp) for 3-phase AC montor al 460/480 V rated value at 575/680 V rated value builded mechanical performance (hp) for 3-phase AC montor rating of auxiliary contacts according to UL contacts 375/680 V rated value contact rating of auxiliary contacts according to UL contacts 95-98-38 R309 / D300 Short-circuit protection recipied of the fuse link of short-circuit protection of the suxiliary switch required of short-circuit protection of the suxiliary switch required of short-circuit protection of the signaling switch of the short-circuit protection of the signaling switch of the short-circuit protection of the signaling switch of the sort-circuit protection of the signaling switch of the sort-circuit protection of the signaling switch of the control recipies of the signaling switch of the sig		
*** at 480/480 V rated value *** at 575/800 V rated value *** at 480/480 V rated value *** at 480/480 V rated value *** according to UL *** contacts at 495-96-98 R300 / D300 *** and contacts according to UL *** according to UL *** according to Tunner to Tunne		1.2071
ontact rating of auxiliary contacts according to UL contact rating of auxiliary contacts product function short circuit protection design of short-circuit protection elosing of the five link of or short-circuit protection of the auxiliary switch required of the short-circuit protection of the signaling switch of the overload release required of a short-circuit protection of the signaling switch of the overload release required of the overload release required of short-circuit protection of the signaling switch of the overload release required of the overload release required of short-circuit protection of the signaling switch of the overload release required of short-circuit protection of the signaling switch of the overload release required of short-circuit protection of the signaling switch of the overload release required of short-circuit protection of the signaling switch of the overload release required of short-circuit protection of the signaling switch of the overload release required of short-circuit protection of the signaling switch of the overload release required of short-circuit protection of the signaling switch of the overload required of short-circuit protection of the signaling switch of the surface of the special system of the surface of the special system of the surface of the special system of the		
ontact rating of auxiliary contacts according to UL contact rating of auxiliary contacts product function short circuit protection design of short-circuit protection elosing of the five link of or short-circuit protection of the auxiliary switch required of the short-circuit protection of the signaling switch of the overload release required of a short-circuit protection of the signaling switch of the overload release required of the overload release required of short-circuit protection of the signaling switch of the overload release required of the overload release required of short-circuit protection of the signaling switch of the overload release required of short-circuit protection of the signaling switch of the overload release required of short-circuit protection of the signaling switch of the overload release required of short-circuit protection of the signaling switch of the overload release required of short-circuit protection of the signaling switch of the overload release required of short-circuit protection of the signaling switch of the overload release required of short-circuit protection of the signaling switch of the overload required of short-circuit protection of the signaling switch of the surface of the special system of the surface of the special system of the surface of the special system of the	• at 460/480 V rated value	0.5 hp
contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of short-circuit protection design of other-circuit protection design of other-circuit protection of the suxiliary switch required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection • for main circuit of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection • for main circuit • for auxiliary and control circuit • for auxiliary contacts • for au	● at 575/600 V rated value	·
Short-circuit protection product function short circuit protection design of short-circuit protection (design of short-circuit protection of the auxiliary switch required		contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 77-78 R300 / B300,
design of short-circuit protection Yes electromagnetic	Short-circuit protection	
design of short-circuit protection design of the fuse link		Yes
design of the fuse link • for short-circuit protection of the auxiliary switch or required • for short-circuit protection of the signaling switch of the short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit protection of the signaling switch of the overload release required • for short-circuit possible of the signaling switch of the overload release required • for short-circuit possible of the signaling switch of the overload release required • for short-circuit possible of the signaling switch of the overload release required • for short-circuit possible of the signaling switch of the overload release required • for main possible of the signaling switch of the overload release required • for main possible of the signaling switch of the overload release required • for main possible of the signaling switch of the overload required standard mounting rall standard mo		
* for short-circuit protection of the auxiliary switch required * for short-circuit release required * for short-circuit release required * for short-circuit protection of the signaling switch of the overload release required * for short-circuit protection of the signaling switch of the overload release required * for short-circuit protection of the signaling switch of the overload release required * for short-circuit protection of the signaling switch of the overload release required * for short-circuit protection of the signaling switch of the overload release required * for short-circuit protection of the signaling switch of the overload release required * for short-circuit protection of the signaling switch of the overload release required * for short-circuit protection of the signaling switch of the overload release required * for short-circuit protection of the signaling switch of the overload release required * for short-circuit protection of the signaling switch of the overload release required * for short-circuit protection of the signaling switch of the overload release required * for short-circuit protection of the signaling switch of the overload release required * for short-circuit protection of the signaling switch of the overload release required * for short-circuit protection of the signaling switch of the signaling switch of the overload release required * for short-circuit protection on the front acc. to IEC 60529 * for short-circuit protection on the fort acc. to IEC 60529 * for short-circuit protection on the fort acc. to IEC 60529 * for short-circuit protection on the fort acc. to IEC 60529 * for short-circuit protection on the fort acc. to IEC 60529 * for short-circuit protection on the fort acc. to IEC 60529 * for short-circuit protection on the fort acc. to IEC 60529 * for short-circuit protection on the fort acc. to IEC 60529 * for short-circuit protection on the fort acc. to IEC 605		, and the second
required • for short-circuit protection of the signaling switch of the short-circuit release required • for short-circuit protection of the signaling switch of the overload release required Installation/ mounting/ dimensions mounting position • recommended • recommended		fuse aL/aG: 10 A
the short-circuit release required • for short-circuit protection of the signaling switch of the overload release required Instaliation mounting dimensions mounting position • recommended fastening method height depth Connections/Terminals product component removable terminal for main circuit type of connectation circuit • for auxiliary and control circuit - solid - finely stranded with core end processing • at AWG cables for main contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - finely stranded with core end processing • at AWG cables for main contacts - solid - finely stranded with core end processing • at AWG cables for main contacts - solid - finely stranded with core end processing • at AWG cables for main contacts - solid - finely stranded with core end processing • at AWG cables for main contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - finely stranded		J-J
• for short-circuit protection of the signaling switch of the overload release required nstallation/ mounting/ dimensions mounting position • recommended • vertical, on horizontal standard mounting rail screw and snap-on mounting the stening method screw and snap-on mounting screw and snap-on mounting the stening method screw and snap-on mounting screw and snap-on mounting the stening method screw and snap-on mounting the standard mounting rail screw and snap-on mounting the standard methous. Yes communication/ Fertical No protection less IP on the front acc. to IEC 60529 product function bus communication No protection is supported A SA-Interface protocol or ID-Link protocol No ID-Link protocol		6A gL/gG/400V
mounting position • recommended • recommende	for short-circuit protection of the signaling switch of	4A gL/gG/400V
mounting position		
recommended screw and snap-on mounting rail screw and snap-on mounting height width depth depth depth depth depth reconnections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit ves in our auxiliary and control circuit in for main current circuit in for auxiliary and control circuit in for auxiliary and control circuit in for auxiliary and control circuit in for main contacts in solid in fiely stranded with core end processing in AWG cables for main contacts in fiely stranded with core end processing in at AWG cables for auxiliary contacts in fiely stranded with core end processing in at AWG cables for auxiliary contacts in fiely stranded with core end processing in at AWG cables for auxiliary contacts in fiely stranded with core end processing in at AWG cables for auxiliary contacts in fiely stranded with core end processing in at AWG cables for auxiliary contacts in fiely stranded with core end processing in at AWG cables for auxiliary contacts in fiely stranded with core end processing in at AWG cables for auxiliary contacts in fiely stranded with core end processing in at AWG cables for auxiliary contacts in fiely stranded with core end processing in at AWG cables for auxiliary contacts in at AWG	Installation/ mounting/ dimensions	
fastening method height 170 mm width 45 mm depth 165 mm Connections/ Terminals product component removable terminal for auxilliary and control circuit product component removable terminal for auxilliary and control circuit plug-in without terminals **Type of electrical connection** **of auxilliary and control circuit plug-in without terminals **of auxilliary and control circuit sorew-type terminals **of auxilliary and control circuit sorew-type terminals **of connectable conductor cross-sections **of or main contacts **—solid 2x (1.5 6 mm²), 1x 10 mm² 2x (1.5 6 mm²) **a AWG cables for main contacts **of auxilliary contacts **—solid 2x (1.6 10), 1x 8 **type of connectable conductor cross-sections **of auxilliary contacts **—solid 0.5 4 mm², 2x (0.5 2.5 mm²) **a ta AWG cables for auxilliary contacts 2x (20 14) **Safety related data **B10 value with high demand rate acc. to SN 31920 3000 000 proportion of dangerous failures ** with low demand rate acc. to SN 31920 40 % **with high demand rate acc. to SN 31920 50 % failure rate [FIT] with low demand rate acc. to SN 31920 100 FIT **T1 value for proof test interval or service life acc. to [EC 61503] protection class IP on the front acc. to IEC 60529 finger-safe Communication/ Protocol product function bus communication No protocol is supported **A-S-Interface protocol **O-C-Link protocol **No **Interface protocol **No **Interface protocol **No **Interface protocol **No **No **Interface protocol **Interface protocol **Interface protocol	mounting position	any
height width 45 mm depth 165 mm Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit product component removable terminal for auxiliary and control circuit product component removable terminal for auxiliary and control circuit of or main current circuit of or main current circuit of or auxiliary and control circuit of or main contacts of or ma	• recommended	vertical, on horizontal standard mounting rail
height width 45 mm depth 165 mm Connections/ Terminals product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit product component removable terminal for auxiliary and control circuit product component removable terminal for auxiliary and control circuit of or main current circuit of or main current circuit of or auxiliary and control circuit of or main contacts of or ma	fastening method	screw and snap-on mounting
depth 165 mm	height	170 mm
product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit • for main contacts — solid — finely stranded with core end processing • for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts 2x (15 6 mm²) 2x (16 10), 1x 8 10.5 4 mm², 2x (0.5 2.5 mm²) 2x (20 14) Safety related data 810 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with low demand rate acc. to SN 31920 • with low for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 product function bus communication protocol Is supported • AS-Interface protocol • IO-Link protocol		45 mm
product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — finely stranded with core end processing • at IAWG cables for auxiliary contacts — solid — finely stranded with core end processing • at IAWG cables for auxiliary contacts 2x (20 14) Safety related data B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 100 FIT T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 protection class IP on the front acc. to IEC 60529 product function bus communication protocol is supported • AS-Interface protocol • IO-Link protocol	depth	165 mm
product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts — solid — finely stranded with core end processing • for auxiliary contacts — solid — finely stranded with core end processing • for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts 2x (1.5 6 mm²), 1x 10 mm² 2x (16 10), 1x 8 type of connectable conductor cross-sections • for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts 2x (20 14) Safety related data B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 40 % • with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 171 value for proof test interval or service life acc. to [EC 61508] protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 finger-safe Communication/ Protocol product function bus communication protocol is supported • AS-Interface protocol • IO-Link protocol	Connections/ Terminals	
product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for main current circuit • for main contacts - solid - finely stranded with core end processing • at AWG cables for main contacts - solid - finely stranded with core end processing • for auxiliary contacts - solid - finely stranded with core end processing • for auxiliary contacts - solid - finely stranded with core end processing • for auxiliary contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts 2x (1.5 6 mm²), 1x 10 mm² 2x (1.5 6 mm²) 3x (16 10), 1x 8 - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts 2x (20 14) Safety related data B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 finger-safe Communication/ Protocol product function bus communication protocol is supported • AS-Interface protocol • IO-Link protocol		Yes
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts — solid — finely stranded with core end processing • for auxiliary contacts • solid — finely stranded with core end processing • at AWG cables for main contacts 1		Yes
• for main current circuit • for auxiliary and control circuit * for auxiliary and control circuit * screw-type terminals		
• for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts	type of electrical connection	
type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts • for auxiliary contacts • solid — finely stranded with core end processing • for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for main contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts 2x (20 4 mm², 2x (0.5 2.5 mm²) 0.5 2.5 mm², 2x (0.5 1.5 mm²) 2x (20 14) Safety related data B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 100 FIT T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 finger-safe Communication/ Protocol product function bus communication No protocol is supported • AS-Interface protocol • IO-Link protocol	• for main current circuit	plug-in without terminals
type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts • for auxiliary contacts • solid — finely stranded with core end processing • for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for main contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts 2x (20 4 mm², 2x (0.5 2.5 mm²) 0.5 2.5 mm², 2x (0.5 1.5 mm²) 2x (20 14) Safety related data B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 100 FIT T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 finger-safe Communication/ Protocol product function bus communication No protocol is supported • AS-Interface protocol • IO-Link protocol	 for auxiliary and control circuit 	screw-type terminals
solid finely stranded with core end processing at AWG cables for main contacts solid for auxiliary contacts solid finely stranded with core end processing for auxiliary contacts solid finely stranded with core end processing finely stranded with core end processing at AWG cables for auxiliary contacts solid finely stranded with core end processing at AWG cables for auxiliary contacts solid finely stranded with core end processing at AWG cables for auxiliary contacts solid finely stranded with core end processing at AWG cables for auxiliary contacts solid finely stranded with core end processing solid finely stranded with core end processing solid finely stranded with core end processing solid	type of connectable conductor cross-sections	
solid finely stranded with core end processing at AWG cables for main contacts solid for auxiliary contacts solid finely stranded with core end processing for auxiliary contacts solid finely stranded with core end processing finely stranded with core end processing at AWG cables for auxiliary contacts solid finely stranded with core end processing at AWG cables for auxiliary contacts solid finely stranded with core end processing at AWG cables for auxiliary contacts solid finely stranded with core end processing at AWG cables for auxiliary contacts solid finely stranded with core end processing solid finely stranded with core end processing solid finely stranded with core end processing solid	• for main contacts	
- finely stranded with core end processing ● at AWG cables for main contacts type of connectable conductor cross-sections ● for auxiliary contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid - finely stranded with core end processing • at AWG cables for auxiliary contacts 2x (20 14 mm², 2x (0.5 2.5 mm²) - at AWG cables for auxiliary contacts 2x (20 14) Safety related data B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 formunication/ Protocol product function bus communication No protocol is supported • AS-Interface protocol • IO-Link protocol		2x (1.5 6 mm²), 1x 10 mm²
at AWG cables for main contacts type of connectable conductor cross-sections of rauxiliary contacts	 finely stranded with core end processing 	
type of connectable conductor cross-sections • for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 60529 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 product function bus communication protocol is supported • AS-Interface protocol • IO-Link protocol	-	
• for auxiliary contacts — solid — finely stranded with core end processing • at AWG cables for auxiliary contacts B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 protection class IP on the front acc. to IEC 60529 product function bus communication protocol is supported • AS-Interface protocol • IO-Link protocol		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
solid finely stranded with core end processing at AWG cables for auxiliary contacts at AWG cables for auxiliary (20 14) at AWG ca		
- finely stranded with core end processing	-	0.5 4 mm² 2x (0.5 2.5 mm²)
at AWG cables for auxiliary contacts 2x (20 14) Safety related data B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 finger-safe Communication/ Protocol product function bus communication No protocol is supported AS-Interface protocol No No		
B10 value with high demand rate acc. to SN 31920 3 000 000 proportion of dangerous failures • with low demand rate acc. to SN 31920 40 % • with high demand rate acc. to SN 31920 50 % failure rate [FIT] with low demand rate acc. to SN 31920 100 FIT T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 IP20 touch protection on the front acc. to IEC 60529 finger-safe Communication/ Protocol product function bus communication No protocol is supported • AS-Interface protocol • IO-Link protocol	, ,	
B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 finger-safe Communication/ Protocol product function bus communication No protocol is supported AS-Interface protocol IO-Link protocol No		
proportion of dangerous failures • with low demand rate acc. to SN 31920 40 % • with high demand rate acc. to SN 31920 50 % failure rate [FIT] with low demand rate acc. to SN 31920 100 FIT T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 IP20 touch protection on the front acc. to IEC 60529 finger-safe Communication/ Protocol product function bus communication No protocol is supported • AS-Interface protocol • IO-Link protocol No		3 000 000
 with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 finger-safe Communication/ Protocol product function bus communication No protocol is supported AS-Interface protocol No No No <td></td> <td></td>		
with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 finger-safe Communication/ Protocol product function bus communication No protocol is supported AS-Interface protocol IO-Link protocol No		40 %
failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 finger-safe Communication/ Protocol product function bus communication No protocol is supported • AS-Interface protocol • IO-Link protocol		
T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 finger-safe Communication/ Protocol product function bus communication protocol is supported • AS-Interface protocol • IO-Link protocol		
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Communication/ Protocol product function bus communication No protocol is supported • AS-Interface protocol • IO-Link protocol	T1 value for proof test interval or service life acc. to	
touch protection on the front acc. to IEC 60529 finger-safe Communication/ Protocol product function bus communication No protocol is supported • AS-Interface protocol No • IO-Link protocol No		IDOO
Communication/ Protocol product function bus communication Protocol is supported • AS-Interface protocol • IO-Link protocol No	<u> </u>	
product function bus communication Protocol is supported AS-Interface protocol IO-Link protocol No		tinger-sate
protocol is supported • AS-Interface protocol • IO-Link protocol No		
AS-Interface protocol IO-Link protocol		No .
IO-Link protocol No		
·		
product function control circuit interface with IO link	· ·	
	product function control circuit interface with IO link	No

Electromagnetic compatibility conducted interference • due to burst acc. to IEC 61000-4-4 4 kV main contacts, 2 kV auxiliary contacts • due to conductor-earth surge acc. to IEC 61000-4-5 4 kV main contacts, 2 kV auxiliary contacts • due to conductor-conductor surge acc. to IEC 2 kV main contacts, 1 kV auxiliary contacts 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-0.15-80Mhz at 10V 4-6 field-based interference acc. to IEC 61000-4-3 10 V/m electrostatic discharge acc. to IEC 61000-4-2 8 kV conducted HF interference emissions acc. to CISPR11 150 kHz ... 30 MHz Class A field-bound HF interference emission acc. to CISPR11 30 ... 1000 MHz Class A Supply voltage required Auxiliary voltage No Display number of LEDs 2 Certificates/ approvals

(I)









EMC



Safety/Safety of Machinery

Functional

Declaration of Conformity

General Product Approval

Test Certificates

Marine / Shipping

UK Declaration of Conformity



Type Test Certificates/Test Report







Marine / Shipping

other

Dangerous Good









Confirmation

<u>Transport Information</u>

Further information

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=3RA6120-1BB33

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6120-1BB33

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-1BB33

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

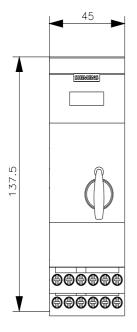
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6120-1BB33&lang=en

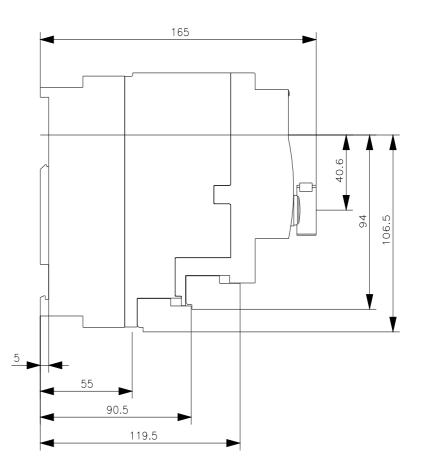
Characteristic: Tripping characteristics, I2t, Let-through current

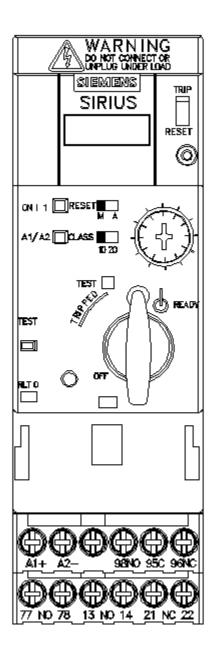
https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-1BB33/char

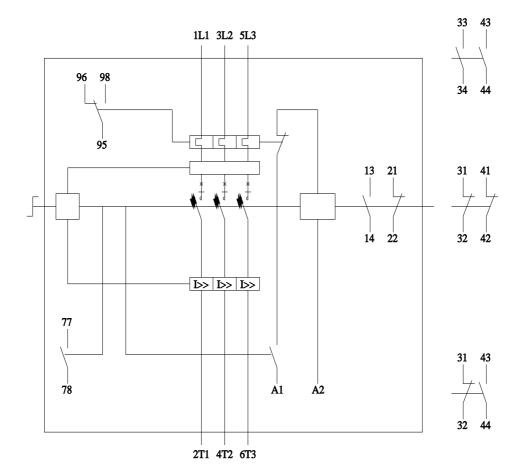
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6120-1BB33&objecttype=14&gridview=view1









last modified: 10/12/2021 🖸