SIEMENS

Data sheet 3RA6120-2EB34



SIRIUS Compact load feeder DOL starter 690 V 24 V AC/DC 50...60 Hz 8...32 A IP20 Connection main circuit: Spring-type terminal Connection auxiliary circuit: plug-in, without terminals

product designation design of the product designation direct starter direct starter direct starter direct starter product type designation (SRA61) Ceneral technical data 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 per pole 1.8 W at AC in hot operating state per pole 1.8 W without load current share typical 3.5 W insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6000 V maximum permissible voltage for protective separation between main and auxiliarly circuit 400 V between auxiliarly and auxiliarly circuit 400 V between centrol and auxiliarly circuit 300 V degree of protection NEMA rating 400 V between centrol and auxiliarly circuit 300 V degree of protection NEMA rating 400 V between centrol and auxiliarly circuit 400 V between centrol and auxiliarly circuit 300 V degree of protection NEMA rating 400 V between centrol and auxiliarly circuit 300 V degree of protection NEMA rating 400 V between centrol and auxiliarly circuit 400 V between centrol and auxiliarly circuit 300 V degree of protection NEMA rating 400 V between centrol and auxiliarly circuit 300 V degree of protection NEMA rating 400 V between centrol and auxiliarly circuit 400 V between centrol and auxiliarly cir	product brand name	SIRIUS
product type designation General technical data product function control circuit interface to parallel wiring product function control circuit interface to parallel wiring 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 per pole **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 **maximum permissible voltage for protective separation **between auxiliary and auxiliary circuit **between main and auxiliary circuit **between control and auxiliary circuit **between control and auxiliary circuit **between control and auxiliary circuit **shock resistance **shock resistance **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **without on resistance **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **without on resistance **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **without on resistance **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **without on resistance **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **without on resistance **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes **a=60 m/s2 (6g) with 10 ms per 3 shocks in all axe	product designation	compact starter
Product function control circuit interface to parallel wiring	design of the product	direct starter
product function control circuit interface to parallel wiring product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current sharet typical • without load current sharet typical insulation voltage rated value degree of poliution • between facility circuit • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • between the control and auxiliary circuit • between the control and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit • about resistance	product type designation	3RA61
product extension auxiliary switch power loss [W] for rated value of the current at AC in hot operating state	General technical data	
power loss [W] for rated value of the current at AC in hot operating state 5.4 W at AC in hot operating state per pole 1.8 W without load current share typical 3.5 W insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6000 V maximum permissible voltage for protective separation • between main and auxiliary circuit 400 V • between auxiliary and auxiliary circuit 250 V • between control and auxiliary circuit 300 V degree of protection NEMA rating 500 other seistance 6 can 6 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance 6 can 6 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance 7 can 6 ms 2 can 6 c	product function control circuit interface to parallel wiring	Yes
at AC in hot operating state at AC in hot operating state per pole without load current share typical insulation voltage radd 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 50 between auxiliary and auxiliary circuit 50 between auxiliary and auxiliary circuit 50 between auxiliary and auxiliary circuit 50 between auxiliary circuit 50 between auxiliary circuit 50 between auxiliary circuit 50 between auxiliary auxiliary auxiliary circuit 50 between auxiliary auxiliary auxiliary auxiliary circuit 60 outher auxiliary auxiliary auxiliary auxiliary auxiliary circuit 60 outher auxiliary contacts typical 60 outher auxiliary contacts 60 outher auxiliary auxiliary contacts 60 outher auxiliary auxiliary auxiliary contacts 60 outher auxiliary contacts typical 60 outher auxiliary contacts 60 outher auxiliary contacts 60 outher auxiliary auxilia	product extension auxiliary switch	Yes
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 6000 V between auxiliary and auxiliary circuit 250 V between control and auxiliary circuit 300 V degree of protection NEMA rating shock resistance 1 = 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) of the main contacts typical 10 000 000 of auxiliary contacts typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts at DC-13 at 6 A at 24 V typical 20 000 type of assignment continous operation continous operation according to IEC 81346-2 Q Substance Prohibitance (Date) 6 violing storage during storage during transport clusted in the first of the sign storage during transport clusted in the sign of the sign o	power loss [W] for rated value of the current	
without load current share typical insulation voltage rated value degree of pollution surge voltage resistance rated value	 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 naviliary and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit 300 V • between control and auxiliary circuit shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles 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 A at 24 V typical • at DC-13 at 6 A at 24 V typical • at AC-15 at 6 A at 23 V typical • at AC-15 at 6 A at 230 V typical • other conditions reference code according to IEC 81346-2 Quuring transport continuous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Quuring transport • during operation • during storage • during transport relative humidity during operation Main circuit	 at AC in hot operating state per pole 	1.8 W
degree of pollution surge voltage resistance rated value maximum permissible voltage for protective separation • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit degree of protection NEMA rating shock resistance = 60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance = 60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance = 60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance = 60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance = 60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance = 60 m/s2 (6g) with 10 ms per 3 shocks in all axes = 60 m/s2 (6g)	 without load current share typical 	3.5 W
surge voltage resistance rated value maximum permissible voltage for protective separation • between anian and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • other shock resistance • a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance • f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s², 10 cycles 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 230 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical • ontinous operation according to IEC 60947-6-2 Treference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit	insulation voltage rated value	690 V
maximum permissible voltage for protective separation • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) • of the main contacts typical • of the signaling contacts typical • of the signaling contacts typical • 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 • of the signaling contacts typical continous operation according to IEC 60947-6-2 Teference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 90 % Main circuit	degree of pollution	3
between auxiliary and auxiliary circuit between control and auxiliary circuit between control and auxiliary circuit degree of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles 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 lelectrical 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 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oluring storage oluring transport -55 +80 °C relative humidity during operation 10 90 % Main circuit	surge voltage resistance rated value	6 000 V
between auxiliary and auxiliary circuit between control and auxiliary circuit other degree of protection NEMA rating shock resistance	maximum permissible voltage for protective separation	
between control and auxiliary circuit degree of protection NEMA rating shock resistance	 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 vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical of the signaling contacts typical of the continuation of the contact of the contac	 between auxiliary and auxiliary circuit 	250 V
shock resistance vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of the signaling contacts typical • of the signaling contacts typical • of the signaling contacts typical • at DC-13 at 6 A at 24 V typical • at DC-13 at 6 A at 230 V typical • of A at 230 V typical 200 000 type of assignment continous operation according to IEC 81346-2 Q Substance Prohibitance (Date) installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit 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 10 000 00	between control and auxiliary circuit	300 V
vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles 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 electrical endurance (operating cycles) of auxiliary contacts 30 000 • at DC-13 at 6 A at 24 V typical 200 000 • 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) 05/01/2012 Ambient conditions 05/01/2012 installation altitude at height above sea level maximum 2 000 m ambient temperature 0 during operation -20 +60 °C 0 during storage -55 +80 °C 0 during transport -55 +80 °C relative humidity during operation 10 90 %	degree of protection NEMA rating	other
mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of the signaling contacts typical • at DC-13 at 6 A at 24 V typical • at AC-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical 200 000 type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage • during transport relative humidity during operation Main circuit	shock resistance	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes
of the main contacts typical of auxiliary contacts typical of the signaling contacts typical one to 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 to descript the signal type of assignment continous operation according to IEC 60947-6-2 Interpretation of the signal type of assignment Interpretation of the signal type of auxiliary contacts Installation altitude at height above sea level maximum Interpretation Interpret	vibration resistance	f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles
of auxiliary 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 other of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Quantity of assignment Quantity of according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions Installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage oduring storage oduring transport relative humidity during operation Main circuit 10 000 000 10 000 000 10 000 000 10 000 00	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 • Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport • during transport • 7-25 +80 °C • during operation Main circuit 10 000 000 10 0	 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 type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) O5/01/2012 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 % Main circuit	 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 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 % Main circuit	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) 05/01/2012 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 • during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit	electrical endurance (operating cycles) of auxiliary contacts	
type of assignment reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit continous operation according to IEC 60947-6-2 Q Q D5/01/2012 Ambient conditions installation altitude at height above sea level maximum 2 000 m -20 +60 °C -55 +80 °C -55 +80 °C relative humidity during operation 10 90 % Main circuit	• at DC-13 at 6 A at 24 V typical	30 000
reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit Q 05/01/2012 Q 05/01/2012	• at AC-15 at 6 A at 230 V typical	200 000
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 90 % Main circuit	type of assignment	continous operation according to IEC 60947-6-2
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit 2 000 m -20 +60 °C -55 +80 °C -55 +80 °C 10 90 %	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport -55 +80 °C relative humidity during operation 2 000 m -20 +60 °C -55 +80 °C 10 90 % Main circuit	Substance Prohibitance (Date)	05/01/2012
ambient temperature • during operation • during storage • during transport -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit	Ambient conditions	
 during operation during storage during transport telative humidity during operation Main circuit 	installation altitude at height above sea level maximum	2 000 m
• during storage • during transport • during transport • during transport • 55 +80 °C relative humidity during operation 10 90 % Main circuit	ambient temperature	
● during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit	during operation	-20 +60 °C
relative humidity during operation 10 90 % Main circuit	during storage	-55 +80 °C
Main circuit	during transport	-55 +80 °C
	relative humidity during operation	10 90 %
number of poles for main current circuit 3	Main circuit	
	number of poles for main current circuit	3

adjustable current response value current of the current-	8 32 A
dependent overload release	
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	
type of voltage	AC/DC
control supply voltage 1 at AC	7.0.50
at 50 Hz rated value	24 V
• at 50 Hz	24 24 V
at 60 Hz rated value	24 V
• at 60 Hz	24 V
control supply voltage frequency	24 V
• 1 rated value	50 Hz
• 2 rated value	60 Hz
	00 HZ
control supply voltage 1 • at DC rated value	24.1/
at DC rated value at DC	24 V
	24 24 V
holding power	0.5.W
at AC maximum	3.5 W
at DC maximum	3.1 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 unit for signaling contact	1
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
operating short-circuit current breaking capacity (Ics)	
•	53 kA
operating short-circuit current breaking capacity (lcs)	53 kA 1 kA
operating short-circuit current breaking capacity (Ics) • at 400 V	
operating short-circuit current breaking capacity (Ics) • at 400 V • at 500 V rated value • at 690 V rated value	1 kA
operating short-circuit current breaking capacity (Ics) • at 400 V • at 500 V rated value • at 690 V rated value UL/CSA ratings	1 kA
operating short-circuit current breaking capacity (Ics) • at 400 V • at 500 V rated value	1 kA
operating short-circuit current breaking capacity (Ics) • at 400 V • at 500 V rated value • at 690 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor	1 kA 1 kA

-t 000/000 Vt - t	751-
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
• 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 	plug-in without terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (2.5 6 mm²), 1x 10 mm²
finely stranded with core end processing	2x (2.5 6 mm²)
finely stranded with core end processing	2x (2.5 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 with core end processing — finely stranded without core end processing	2x (0.25 1.5 mm²)
for AWG cables for auxiliary contacts	2x (0.25 1.5 mm) 2x (24 16)
·	۵۸ (۵۶ ۱۷)
Safety related data	2,000,000
B10 value with high demand rate according to SN 31920	2 000 000
proportion of dangerous failures	40.07
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	50 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
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
Certificates/ approvals	

General Product Approval

EMC

Functional Safety/Safety of Machinery



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other

Dangerous Good





Confirmation

Transport Information

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RA6120-2EB34

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6120-2EB34

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-2EB34

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

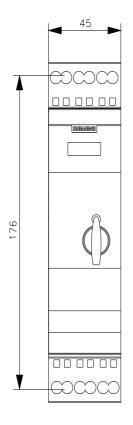
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6120-2EB34&lang=en

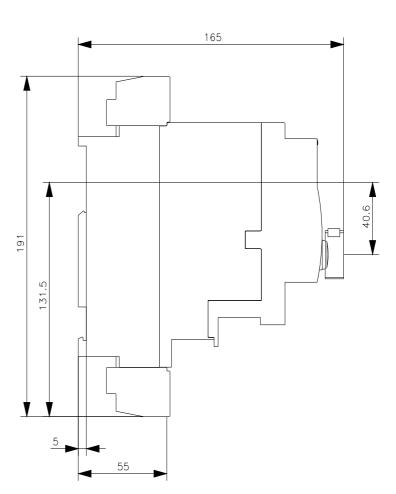
Characteristic: Tripping characteristics, I²t, Let-through current

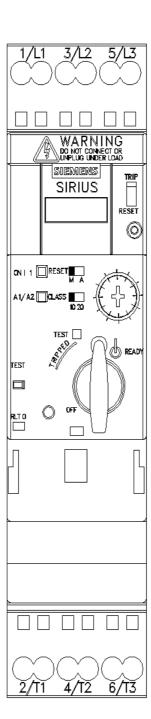
https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-2EB34/char

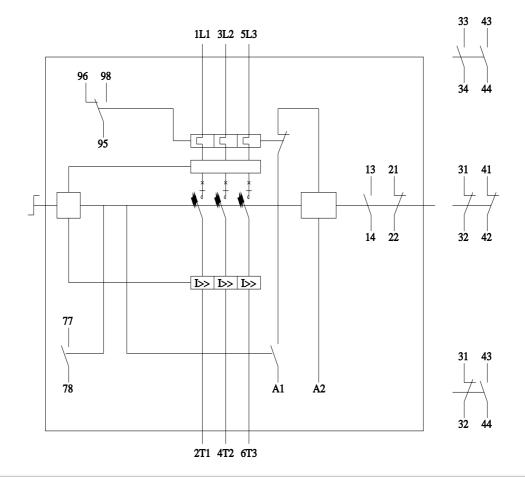
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6120-2EB34&objecttype=14&gridview=view1









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