## **SIEMENS**

Data sheet 3RA6120-1BP32



SIRIUS Compact load feeder DOL starter 690 V 110...240 V AC/DC 50...60 Hz 0.32...1.25 A IP20 Connection main circuit: screw terminal Connection auxiliary circuit: screw terminal

product designation compact starter design of the product product type designation  General technical data  product function control circuit interface to parallel wiring product extension auxiliary switch product extension auxiliary switch  **a ta C in hot operating state **a ta C in hot operating cycles) **obetween auxiliary and auxiliary circuit **a ta C in hot operating cycles) **of the main contacts typical **of the signaling contacts typical **of the signal		
design of the product product type designation  General technical data product function control circuit interface to parallel wiring product extension auxiliary switch  Prower 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 insulation voltage rated value  degree of pollution surge voltage resistance rated value  • between main and auxiliary circuit • between main and auxiliary circuit • between nactival auxiliary circuit • between control and auxiliary circuit shock resistance  shock resistance  mechanical service life (operating cycles) • of the main contacts typical • of the signaling contacts typical •	product brand name	SIRIUS
product type designation  General technical data  product function control circuit interface to parallel wiring product extension auxiliary switch  • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical insulation voltage 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 • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • of the signaling contacts typical • of the signaling contacts typical • of 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 22 V typical • at AC-15 at 6 A at 22 V typical • at AC-15 at 6 A at 22 V typical • of aussignment continous operation according to IEC 81346-2  Substance Prohibitance (Date)  5/86  5/86  7		compact 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 share typical degree of pollution 3 surge voltage resistance rated value • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • 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 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 value contacts contacts contacts contacts on the contacts of the signaling contacts contacts contacts contacts on the contacts of the contacts contact	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 share typical • without load current share typical degree of pollution  surge voltage resistance rated value • 690 V  degree of pollution  surge voltage resistance rated value • 6000 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  shock resistance  mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • of the signaling contacts typical • of the signaling contacts typical • of the signaling contacts typical • at AC-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 23 V typical  volume to the signal of the contact	product type designation	3RA61
product extension auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state 0.1 W  • at AC in hot operating state per pole 0.03 W  • without load current share typical 6 W  insulation voltage rated value 690 V  degree of pollution 3  surge voltage resistance rated value 6000 V  maximum permissible voltage for protective separation  • between main and auxiliary circuit 400 V  • between auxiliary and auxiliary circuit 250 V  • between control and auxiliary circuit 300 V  degree of protection NEMA rating other a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes  mechanical service life (operating cycles)  • of the main contacts typical 10 000 000  • of auxiliary contacts typical 10 000 000  • of dauxiliary contacts typical 10 000 000  • of the signaling contacts typical 10 000 000  • of the signaling contacts typical 200 000  • at AC-15 at 6 A at 24 V typical 30 000  • at AC-15 at 6 A at 230 V typical 200 0000  type of assignment continuous operation according to IEC 60947-6-2  reference code according to IEC 81346-2 Q  Substance Prohibitance (Date) 05/01/2012	General technical data	
power loss [W] for rated value of the current  • at AC in hot operating state 0.1 W  • at AC in hot operating state per pole 0.03 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 400 V  • between auxiliary and auxiliary circuit 250 V  • between control and auxiliary circuit 300 V  degree of protection NEMA rating other sistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes  mechanical service life (operating cycles)  • of the main contacts typical 10 000 000  • of auxiliary contacts typical 10 000 000  • of the signaling contacts typical 10 000 000  • of the signaling contacts typical 10 000 000  • of the signaling contacts typical 200 000  electrical endurance (operating cycles) of auxiliary contacts  • at DC-13 at 6 A at 24 V typical 200 000  type of assignment continue operation to IEC 81346-2 Q  Substance Prohibitance (Date) 05/01/2012	product function control circuit interface to parallel wiring	Yes
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>6 W</li> <li>insulation voltage rated value</li> <li>690 V</li> <li>degree of pollution</li> <li>surge voltage resistance rated value</li> <li>6 000 V</li> <li>maximum permissible voltage for protective separation</li> <li>between main and auxiliary circuit</li> <li>between auxiliary and auxiliary circuit</li> <li>between auxiliary and auxiliary circuit</li> <li>between control and auxiliary circuit</li> <li>degree of protection NEMA rating</li> <li>shock resistance</li> <li>mechanical service life (operating cycles)</li> <li>of the main contacts typical</li> <li>of auxiliary contacts typical</li> <li>of the signalling contacts typical</li> <li>of the Coperating cycles) of auxiliary contacts</li> <li>at DC-13 at 6 A at 24 V typical</li> <li>at DC-13 at 6 A at 24 V typical</li> <li>at DC-15 at 6 A at 230 V typical</li> <li>of assignment</li> <li>continous operation according to IEC 60947-6-2</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>05/01/2012</li> </ul>	product extension auxiliary switch	Yes
at AC in hot operating state per pole without load current share typical insulation voltage rated value degree of pollution surge voltage resistance rated value between main 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  mechanical service life (operating cycles) of the main contacts typical of auxiliary 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 continuous operation according to IEC 60947-6-2  reference code according to IEC 81346-2 Q Substance Prohibitance (Date)	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     6 000 V  maximum permissible voltage for protective separation     between main and auxiliary circuit     between auxiliary and auxiliary circuit     between control and auxiliary circuit     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 the signaling contacts typical     of the signaling contacts typical     of at DC-13 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     verification of the signaling to the signaling to the signaling to the contacts     at DC-13 at 6 A at 230 V typical     continous operation according to IEC 60947-6-2  Treference code according to IEC 81346-2  Substance Prohibitance (Date)  O5/01/2012	<ul> <li>at AC in hot operating state</li> </ul>	0.1 W
insulation voltage rated value  degree of pollution  surge voltage resistance rated value  e 6 000 V  maximum permissible voltage for protective separation  • between main and auxiliary circuit  • between auxiliary and auxiliary circuit  • between control and auxiliary circuit  degree of protection NEMA rating  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  • at DC-13 at 6 A at 24 V typical  • at AC-15 at 6 A at 230 V typical  vertical reference code according to IEC 81346-2  Substance Prohibitance (Date)  60 00 V  400	<ul> <li>at AC in hot operating state per pole</li> </ul>	0.03 W
degree of pollution surge voltage resistance rated value 6 000 V  maximum permissible voltage for protective separation • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit 300 V  degree of protection NEMA rating shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes  mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of the signaling contacts typical • of the signaling contacts typical • of the signaling contacts typical • at DC-13 at 6 A at 24 V typical • at C-15 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical  vertical endurance (operating cycles)  type of assignment continous operation according to IEC 60947-6-2  reference code according to IEC 81346-2 Q Substance Prohibitance (Date)	<ul> <li>without load current share typical</li> </ul>	6 W
surge voltage resistance rated value  maximum permissible voltage for protective separation  • between main and auxiliary circuit  • between auxiliary and auxiliary circuit  • between control and auxiliary circuit  300 V  degree of protection NEMA rating  shock resistance  a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes  mechanical service life (operating cycles)  • of the main contacts typical  • of auxiliary contacts typical  • of the signaling contacts typical  • of the signaling contacts typical  • of the signaling contacts typical  • at DC-13 at 6 A at 24 V typical  • at C-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  • continous operation according to IEC 60947-6-2  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)	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  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 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  value of assignment  continous operation according to IEC 81346-2  Substance Prohibitance (Date)  05/01/2012	degree of pollution	3
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 a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes  mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical of the signaling contacts typical of the signaling contacts typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts of at DC-13 at 6 A at 24 V typical 200 000 type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Substance Prohibitance (Date)  0 5/01/2012	surge voltage resistance rated value	6 000 V
<ul> <li>between auxiliary and auxiliary circuit</li> <li>between control and auxiliary circuit</li> <li>300 V</li> <li>degree of protection NEMA rating</li> <li>shock resistance</li> <li>mechanical service life (operating cycles)</li> <li>of the main contacts typical</li> <li>of auxiliary contacts typical</li> <li>of the signaling contacts typical</li> <li>of the signaling contacts typical</li> <li>electrical endurance (operating cycles) of auxiliary contacts</li> <li>at DC-13 at 6 A at 24 V typical</li> <li>at AC-15 at 6 A at 230 V typical</li> <li>type of assignment</li> <li>continous operation according to IEC 81346-2</li> <li>Q</li> <li>Substance Prohibitance (Date)</li> <li>other</li> <li>300 V</li> <li>other</li> <li>at 000 000</li> <li>at 000 000<!--</th--><th>maximum permissible voltage for protective separation</th><th></th></li></ul>	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 cont	<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
degree of protection NEMA rating shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes  mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical of the signaling contacts typical of the	<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	250 V
shock resistance  mechanical service life (operating cycles)  of the main contacts typical  of the signaling contacts  of the signaling contacts typical  of the signaling contacts  of the signaling contacts typical  of the sig	<ul> <li>between control and auxiliary circuit</li> </ul>	300 V
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  • of the signaling contacts typical  • at DC-13 at 6 B at 24 V typical  • at DC-13 at 6 C at 25 V typical  • at AC-15 at 6 C at 25 V typical  • at AC-15 at 6 C at 25 V typical  • of the signaling contacts typical  • at DC-13 at 6 C at 24 V typical  • at DC-13 at 6 C at 25 V typical  • at DC-15 at 6 C at 25 V typical	degree of protection NEMA rating	other
<ul> <li>of the main contacts typical</li> <li>of auxiliary contacts typical</li> <li>10 000 000</li> <li>of the signaling contacts typical</li> <li>10 000 000</li> <li>electrical endurance (operating cycles) of auxiliary contacts</li> <li>at DC-13 at 6 A at 24 V typical</li> <li>at AC-15 at 6 A at 230 V typical</li> <li>type of assignment</li> <li>continous operation according to IEC 60947-6-2</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>10 000 000</li> <li>200 000</li> <li>EC 60947-6-2</li> <li>Q</li> <li>Substance Prohibitance (Date)</li> </ul>	shock resistance	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes
<ul> <li>of auxiliary contacts typical</li> <li>of the signaling contacts typical</li> <li>10 000 000</li> <li>electrical endurance (operating cycles) of auxiliary contacts</li> <li>at DC-13 at 6 A at 24 V typical</li> <li>at AC-15 at 6 A at 230 V typical</li> <li>type of assignment</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>10 000 000</li> <li>20 000</li> <li>continous operation according to IEC 60947-6-2</li> <li>Q</li> <li>Substance Prohibitance (Date)</li> <li>05/01/2012</li> </ul>	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  type of assignment  reference code according to IEC 81346-2  Substance Prohibitance (Date)  10 000 000  200 000  continous operation according to IEC 60947-6-2  Q  Substance Prohibitance (Date)  05/01/2012	<ul> <li>of the main contacts typical</li> </ul>	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  Substance Prohibitance (Date)  05/01/2012	<ul> <li>of auxiliary contacts typical</li> </ul>	10 000 000
<ul> <li>at DC-13 at 6 A at 24 V typical</li> <li>at AC-15 at 6 A at 230 V typical</li> <li>200 000</li> <li>type of assignment</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>30 000</li> <li>continous operation according to IEC 60947-6-2</li> <li>Q</li> <li>05/01/2012</li> </ul>	<ul> <li>of the signaling contacts typical</li> </ul>	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  Substance Prohibitance (Date)  05/01/2012	electrical endurance (operating cycles) of auxiliary contacts	
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	• at DC-13 at 6 A at 24 V typical	30 000
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012	• at AC-15 at 6 A at 230 V typical	200 000
Substance Prohibitance (Date) 05/01/2012	type of assignment	continous operation according to IEC 60947-6-2
	reference code according to IEC 81346-2	Q
SVHC substance name	Substance Prohibitance (Date)	05/01/2012
Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2	SVHC substance name	
Ambient conditions	Ambient conditions	
installation altitude at height above sea level maximum 2 000 m	installation altitude at height above sea level maximum	2 000 m
ambient temperature	ambient temperature	
• during operation -20 +60 °C	during operation	-20 +60 °C
● during storage -55 +80 °C	during storage	-55 +80 °C
◆ during transport     →55 +80 °C	during transport	-55 +80 °C
relative humidity during operation 10 90 %	relative humidity during operation	10 90 %
Main circuit	Main circuit	

number of noise for main current circuit	3
number of poles for main current circuit	0.32 1.25 A
adjustable current response value current of the current- dependent overload release	0.0Z 1.ZV A
formula for making capacity limit current	38.4 x le
formula for limit current breaking capacity	32 x le
yielded mechanical performance for 4-pole AC motor	
• at 400 V rated value	0.37 kW
at 500 V rated value	0.55 kW
at 690 V rated value	0.75 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC at 400 V rated value</li> </ul>	1.25 A
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	1.25 A
• at AC-43	
— at 400 V rated value	1.1 A
— at 500 V rated value	1.2 A
— at 690 V rated value	1.1 A
operating power	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	0.37 kW
• at AC-43	
— at 400 V rated value	370 W
— at 500 V rated value	550 W
— at 690 V rated value	750 W
no-load switching frequency	3 600 1/h
operating frequency	
<ul> <li>at AC-41 according to IEC 60947-6-2 maximum</li> </ul>	750 1/h
at AC-43 according to IEC 60947-6-2 maximum	250 1/h
Control circuit/ Control	
type of voltage	AC/DC
control supply voltage 1 at AC	
at 50 Hz rated value	240 V
• at 50 Hz	110 240 V
• at 60 Hz	110 240 V
control supply voltage frequency	
• 1 rated value	50 Hz
2 rated value	50 Hz 60 Hz
2 rated value control supply voltage 1 at DC	60 Hz
2 rated value  control supply voltage 1 at DC      rated value	60 Hz
2 rated value  control supply voltage 1 at DC      rated value	60 Hz
2 rated value  control supply voltage 1 at DC      rated value  holding power	60 Hz 240 V 110 240 V
2 rated value     control supply voltage 1 at DC           rated value           holding power           at AC maximum	60 Hz 240 V 110 240 V
2 rated value  control supply voltage 1 at DC     • rated value     •  holding power     • at AC maximum     • at DC maximum	60 Hz 240 V 110 240 V
2 rated value     control supply voltage 1 at DC	60 Hz  240 V  110 240 V  6 W  5.1 W
2 rated value  control supply voltage 1 at DC      rated value      holding power      at AC maximum      at DC maximum  Auxiliary circuit  number of NC contacts for auxiliary contacts	60 Hz  240 V  110 240 V  6 W  5.1 W
2 rated value     control supply voltage 1 at DC	60 Hz  240 V  110 240 V  6 W  5.1 W
2 rated value  control supply voltage 1 at DC      rated value      holding power      at AC maximum      at DC maximum  Auxiliary circuit  number of NC contacts for auxiliary contacts	60 Hz  240 V  110 240 V  6 W  5.1 W
• 2 rated value     control supply voltage 1 at DC     • rated value     •     holding power     • at AC maximum     • at DC maximum Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts of instantaneous short-circuit trip unit for	60 Hz  240 V  110 240 V  6 W  5.1 W
	60 Hz  240 V  110 240 V  6 W  5.1 W
2 rated value     control supply voltage 1 at DC	60 Hz  240 V  110 240 V  6 W  5.1 W
o 2 rated value     control supply voltage 1 at DC	60 Hz  240 V  110 240 V  6 W  5.1 W  1  1  1  1  1
ontrol supply voltage 1 at DC	60 Hz  240 V  110 240 V  6 W  5.1 W  1  1  1  1  1
ontrol supply voltage 1 at DC	60 Hz  240 V  110 240 V  6 W  5.1 W  1  1  1  1  10 A  0.27 A
ontrol supply voltage 1 at DC	60 Hz  240 V  110 240 V  6 W  5.1 W  1  1  1  1  10 A  0.27 A
o 2 rated value     control supply voltage 1 at DC	60 Hz  240 V  110 240 V  6 W  5.1 W  1  1  1  1  CLASS 10 and 20 adjustable
orated value     orated value     rated value     orated value	240 V 110 240 V 6 W 5.1 W  1 1 1 1 CLASS 10 and 20 adjustable 53 kA
ontrol supply voltage 1 at DC	60 Hz  240 V  110 240 V  6 W  5.1 W  1  1  1  1  CLASS 10 and 20 adjustable  53 kA 3 kA
orated value     orated value     rated value     orated value	60 Hz  240 V  110 240 V  6 W  5.1 W  1  1  1  1  CLASS 10 and 20 adjustable  53 kA 3 kA
o 2 rated value     control supply voltage 1 at DC	60 Hz  240 V  110 240 V  6 W  5.1 W  1  1  1  1  CLASS 10 and 20 adjustable  53 kA 3 kA
o 2 rated value     control supply voltage 1 at DC	240 V 110 240 V 6 W 5.1 W  1 1 1 1 CLASS 10 and 20 adjustable 53 kA 3 kA 3 kA

yielded mechanical performance [hp] for 3-phase AC motor	
<ul><li>at 460/480 V rated value</li></ul>	0.5 hp
● at 575/600 V rated value	0.5 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	
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A
<ul> <li>for short-circuit protection of the signaling switch of the short-circuit release required</li> </ul>	6A gL/gG/400V
<ul> <li>for short-circuit protection of the signaling switch of the overload release required</li> </ul>	4A gL/gG/400V
Installation/ mounting/ dimensions	
mounting position	any
mounting position recommended	vertical, on horizontal standard DIN rail
fastening method	screw and snap-on mounting
height	170 mm
width	45 mm
depth	165 mm
Connections/ Terminals	
product component removable terminal for main circuit	Yes
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7
• solid	2x (1.5 6 mm²), 1x 10 mm²
finely stranded with core end processing	2x (1.5 6 mm²)
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	0.5 4 mm², 2x (0.5 2.5 mm²)
finely stranded with core end processing	0.5 2.5 mm², 2x (0.5 1.5 mm²)
for AWG cables for auxiliary contacts	2x (20 14)
Safety related data	2. (2° · · · )
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	50 %
	3 000 000
B10 value with high demand rate according to SN 31920	100 FIT
failure rate [FIT] with low demand rate according to SN 31920	100111
IEC 61508	
T1 value for proof test interval or service life according to IEC 61508	20 a
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe
Communication/ Protocol	
product function bus communication	No
protocol is supported	
AS-Interface protocol	No
IO-Link protocol	No
product function control circuit interface with IO link	No
Electromagnetic compatibility	
conducted interference	
due to burst according to IEC 61000-4-4	4 kV main contacts, 2 kV auxiliary contacts
due to conductor-earth surge according to IEC 61000-4-5	4 kV main contacts, 2 kV auxiliary contacts
due to conductor-conductor surge according to IEC	2 kV main contacts, 1 kV auxiliary contacts
61000-4-5	
<ul> <li>due to high-frequency radiation according to IEC 61000- 4-6</li> </ul>	0.15-80Mhz at 10V

field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	8 kV
conducted HF interference emissions according to CISPR11	150 kHz 30 MHz Class A
field-bound HF interference emission according to CISPR11	30 1000 MHz Class A
Supply voltage	
Supply voltage required Auxiliary voltage	No
Display	
number of LEDs	2
Approvals Certificates	

**General Product Approval** 





Confirmation







**EMV** 

**Functional Saftey** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







other

**Dangerous goods** 

**Environment** 

Confirmation

**Transport Information** 

Environmental Confirmations

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA6120-1BP32

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6120-1BP32

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-1BP32

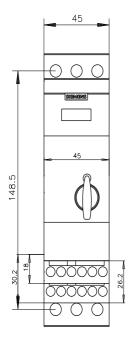
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

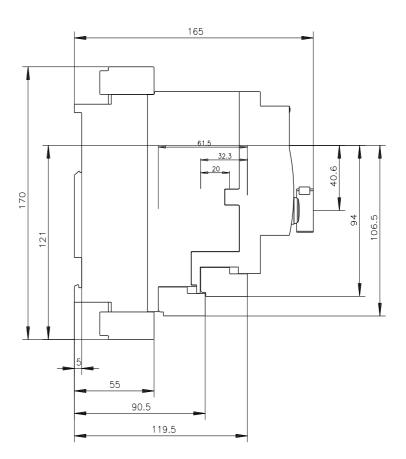
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA6120-1BP32&lang=en

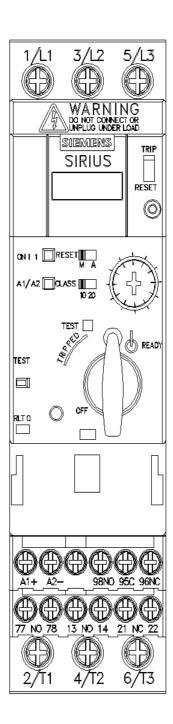
Characteristic: Tripping characteristics,  $I^2t$ , Let-through current

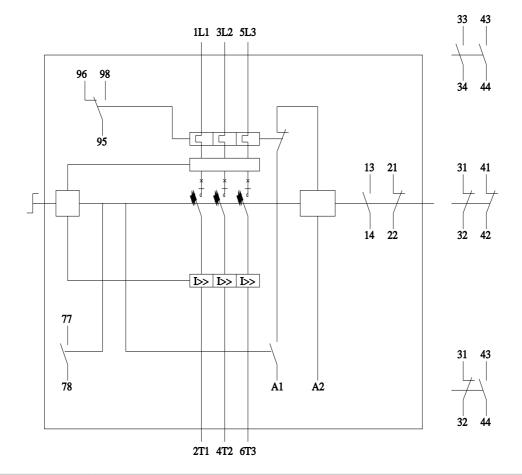
https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-1BP32/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6120-1BP32&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6120-1BP32&objecttype=14&gridview=view1</a>









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