# SIEMENS

### Data sheet

## 3RA6120-1DP32



SIRIUS Compact load feeder DOL starter 690 V 110...240 V AC/DC 50...60 Hz 3...12 A IP20 Connection main circuit: screw terminal Connection auxiliary circuit: screw terminal

product brand name	SIRIUS				
product designation	compact starter				
design of the product	direct starter				
product type designation	3RA61				
General 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					
<ul> <li>at AC in hot operating state</li> </ul>	1.8 W				
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.6 W				
<ul> <li>without load current share typical</li> </ul>	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					
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V				
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	250 V				
<ul> <li>between control and auxiliary circuit</li> </ul>	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)					
<ul> <li>of the main contacts typical</li> </ul>	10 000 000				
<ul> <li>of auxiliary contacts typical</li> </ul>	10 000 000				
<ul> <li>of the signaling contacts typical</li> </ul>	10 000 000				
electrical endurance (operating cycles) of auxiliary contacts					
<ul> <li>at DC-13 at 6 A at 24 V typical</li> </ul>	30 000				
<ul> <li>at AC-15 at 6 A at 230 V typical</li> </ul>	200 000				
type of assignment	continous operation according to IEC 60947-6-2				
reference code according to IEC 81346-2	Q				
Substance Prohibitance (Date)	05/01/2012				
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7				
Ambient conditions					
installation altitude at height above sea level maximum	2 000 m				
ambient temperature					
<ul> <li>during operation</li> </ul>	-20 +60 °C				
<ul> <li>during storage</li> </ul>	-55 +80 °C				
during transport	-55 +80 °C				

relative humidity during operation	10 90 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	3 12 A
formula for making capacity limit current	12 x le
formula for limit current breaking capacity	10 x le
vielded mechanical performance for 4-pole AC motor	
• at 400 V rated value	5.5 kW
• at 500 V rated value	5.5 kW
• at 690 V rated value	7.5 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
• at AC at 400 V rated value	12 Δ
e at AC-3 at 400 V rated value	12 Δ
- at 400 V rated value	11.5 Δ
at 500 V rated value	12.4.4
at 600 V rated value	12.7 A
	0.3 A
e at AC 3 at 400 V rated value	5.5 MM
• at AC-3 at 400 v fateu value • at AC-43	J.J KW
• at 400 V reted value	E E00 M/
- at 400 V rated value	5 500 W
- at 500 V rated value	5 500 W
	7 500 VV
no-load switching frequency	3 600 1/n
operating frequency	
• at AC-41 according to IEC 60947-6-2 maximum	750 1/h
<ul> <li>at AC-43 according to IEC 60947-6-2 maximum</li> </ul>	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	60 Hz
control supply voltage 1	
<ul> <li>at DC rated value</li> </ul>	240 V
• at DC	110 240 V
holding power	
• at AC maximum	6 W
• at DC maximum	5.1 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 (lcs)	
• at 400 V	53 kA
• at 500 V rated value	3 kA
• at 690 V rated value	
	3 kA
UL/CSA ratings	3 kA

• at 480 v rated value	12 A
• at 600 V rated value	12 A
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	3 hp
<ul> <li>at 220/230 V rated value</li> </ul>	3 hp
• at 460/480 V rated value	7.5 hp
at 575/600 V rated value	10 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 protoction	Vac
design of chort circuit protection	
design of the fuse link	electionagnetic
• for short circuit protection of the auxiliary switch required	fuse al /aG: 10 A
<ul> <li>for short-circuit protection of the signaling switch of the short-size it relates a consistent.</li> </ul>	6A gL/gG/400V
<ul> <li>for short-circuit protection of the signaling switch of the</li> </ul>	4A gL/gG/400V
overload release required	
Installation/ mounting/ dimensions	
mounting position	any
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
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1.5 6 mm²), 1x 10 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1.5 6 mm²)
type of connectable conductor cross-sections	
· · · · · ·	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul> <li>for auxiliary contacts</li> <li>— solid</li> </ul>	0.5 4 mm², 2x (0.5 2.5 mm²)
<ul> <li>for auxiliary contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> </ul> </li> </ul>	0.5 4 mm², 2x (0.5 2.5 mm²) 0.5 2.5 mm², 2x (0.5 1.5 mm²)
<ul> <li>for auxiliary contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> </ul> </li> <li>for AWG cables for auxiliary contacts</li> </ul>	0.5 4 mm², 2x (0.5 2.5 mm²) 0.5 2.5 mm², 2x (0.5 1.5 mm²) 2x (20 14)
<ul> <li>for auxiliary contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>Safety related data</li> </ul>	0.5 4 mm², 2x (0.5 2.5 mm²) 0.5 2.5 mm², 2x (0.5 1.5 mm²) 2x (20 14)
<ul> <li>for auxiliary contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value with high demand rate according to SN 31920</li> </ul> </li> </ul>	0.5 4 mm², 2x (0.5 2.5 mm²) 0.5 2.5 mm², 2x (0.5 1.5 mm²) 2x (20 14) 3 000 000
for auxiliary contacts         — solid         — finely stranded with core end processing         • for AWG cables for auxiliary contacts         Safety related data         B10 value with high demand rate according to SN 31920         proportion of dangerous failures	0.5 4 mm², 2x (0.5 2.5 mm²) 0.5 2.5 mm², 2x (0.5 1.5 mm²) 2x (20 14) 3 000 000
for auxiliary contacts         — solid         — finely stranded with core end processing         • for AWG cables for auxiliary contacts         Safety related data         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920	0.5 4 mm <sup>2</sup> , 2x (0.5 2.5 mm <sup>2</sup> ) 0.5 2.5 mm <sup>2</sup> , 2x (0.5 1.5 mm <sup>2</sup> ) 2x (20 14) 3 000 000 40 %
<ul> <li>for auxiliary contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures                 <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> </li> </ul> </li> </ul>	0.5 4 mm <sup>2</sup> , 2x (0.5 2.5 mm <sup>2</sup> ) 0.5 2.5 mm <sup>2</sup> , 2x (0.5 1.5 mm <sup>2</sup> ) 2x (20 14) 3 000 000 40 % 50 %
<ul> <li>for auxiliary contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures                 <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> </ul> </li> </ul> </li> </ul>	0.5 4 mm², 2x (0.5 2.5 mm²) 0.5 2.5 mm², 2x (0.5 1.5 mm²) 2x (20 14) 3 000 000 40 % 50 % 100 FIT
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for auxiliary contacts         — solid         — finely stranded with core end processing         • for AWG cables for auxiliary contacts         Safety related data         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         T1 value for proof test interval or service life according to IEC         61508         protection class IP on the front according to IEC 60529	0.5 4 mm², 2x (0.5 2.5 mm²) 0.5 2.5 mm², 2x (0.5 1.5 mm²) 2x (20 14) 3 000 000 40 % 50 % 100 FIT 20 a IP20
<ul> <li>for auxiliary contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures                 <ul> <li>with how demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li></ul></li></ul></li></ul>	0.5 4 mm², 2x (0.5 2.5 mm²) 0.5 2.5 mm², 2x (0.5 1.5 mm²) 2x (20 14)
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<ul> <li>for auxiliary contacts         <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>Safety related data         <ul> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> </ul> </li> <li>Communication/ Protocol</li> </ul>	0.5 4 mm², 2x (0.5 2.5 mm²) 0.5 2.5 mm², 2x (0.5 1.5 mm²) 2x (20 14) 3 000 000 40 % 50 % 100 FIT 20 a IP20 finger-safe
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<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/r	10 V/m			
electrostatic discharge according to IEC 61000-4-2		8 kV	8 kV				
conducted HF interference emissions according to CISPR11		150 kHz 30 MHz Class A					
field-bound HF interference emission according to CISPR11		30	30 1000 MHz Class A				
Supply voltage							
Supply voltage required	Auxiliary voltage		No	No			
Display							
number of LEDs			2				
Certificates/ approvals							
General Product Appro	val				EMC	Functional Safety/Safety of Ma- chinery	
<u>Confirmation</u>		(U) u		EHC	RCM		
Declaration of Conform	ity	Test Certificate	es	Marine / Shipping			
C C EG-Konf.	UK CA	<u>Type Test Cer</u> ates/Test Rep	<u>tific-</u> port	ABS		Llovds Register uxs	
Marine / Shipping		other		Dangerous Good			
	RINA	Confirmatio	<u>n</u>	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=3RA6120-1DP32

Cax online generator

.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6120-1DP32 http://supp

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-1DP3

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA6120-1DP32&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://supp

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6120-1DP32&objecttype=14&gridview=view1









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