## SIEMENS

## Data sheet

## 3RA6120-1EB32



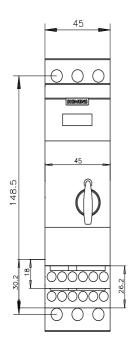
SIRIUS Compact load feeder DOL starter 690 V 24 V AC/DC 50...60 Hz 8...32 A IP20 Connection main circuit: screw terminal Connection auxiliary circuit: screw terminal

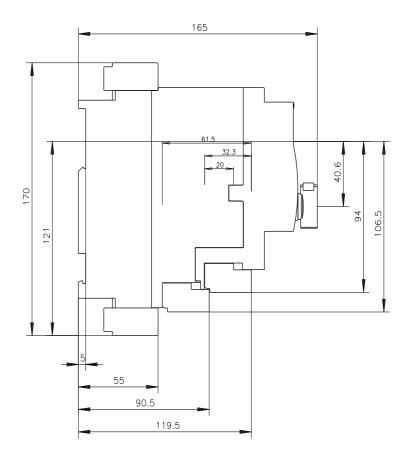
- 6- # #15	
product brand name	SIRIUS
product designation	compact starter
design of the product	direct starter
product type designation	3RA61
General technical data	
product function control circuit interface to parallel wiring	Yes
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	5.4 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.8 W
<ul> <li>without load current share typical</li> </ul>	3.5 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	
during operation	-20 +60 °C
during storage	-55 +80 °C
during transport	-55 +80 °C

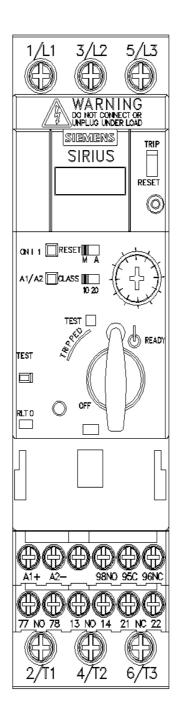
relative humidity during operation	10 90 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	8 32 A
formula for making capacity limit current	12 x le
formula for limit current breaking capacity	10 x le
yielded 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	
<ul> <li>at AC at 400 V rated value</li> </ul>	32 A
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	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	
• 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	
• 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	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)	
• at 400 V	53 kA
at 500 V rated value	1 kA
at 690 V rated value	1 kA
UL/CSA ratings	

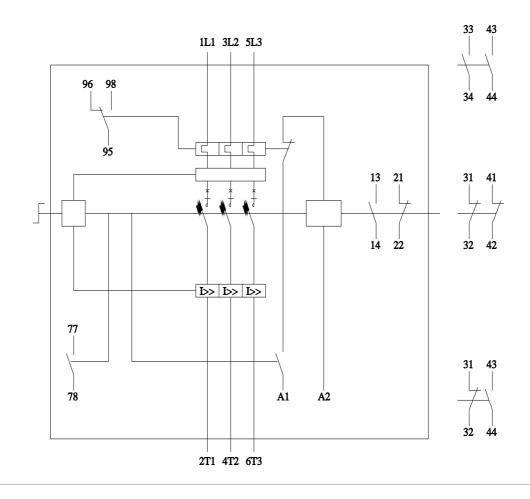
full load ourrent (ELA) for 2 phase AC motor			
full-load current (FLA) for 3-phase AC motor	32 A		
at 480 V rated value	JZ A		
yielded mechanical performance [hp] for 3-phase AC motor	7.5 hz		
at 200/208 V rated value	7.5 hp		
at 220/230 V rated value	10 hp		
at 460/480 V rated value	20 hp		
contact 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			
<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</li> </ul>	6A gL/gG/400V		
short-circuit release required			
<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		
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	Yes		
_control circuit			
for main current circuit	screw-type terminals		
for auxiliary and control circuit	screw-type terminals		
type of connectable conductor cross-sections for main contacts	sciew-type terminals		
solid	2x (2.5 6 mm²), 1x 10 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (2.5 6 mm <sup>2</sup> )		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid	0.5 4 mm², 2x (0.5 2.5 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm², 2x (0.5 1.5 mm²)		
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 14)		
Safety related data			
B10 value with high demand rate according to SN 31920	2 000 000		
proportion of dangerous failures			
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	20 a		
61508	IP20		
protection class IP on the front according to IEC 60529 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			
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	4 kV main contacts 2 kV auxiliary contacts		
<ul> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	4 kV main contacts, 2 kV auxiliary contacts 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		
-			

4-6 field-based interference according to IEC 61000-4-3		000-4-3	10 V/m			
electrostatic discharge according to IEC 61000-4-2			8 kV			
conducted HF interference emissions according to CISPR11		ling to	150 kHz 30 MHz Class A			
field-bound HF interference emission according to CISPR11		ing to CISPR11	30 1000 MHz Class A			
upply voltage						
Supply voltage require	d Auxiliary voltage		No			
isplay						
number of LEDs	·		2			
ertificates/ approvals						
General Product Appr	oval			EMC	Functional Safety/Safety of Ma chinery	
<u>Confirmation</u>			EAC			
Declaration of Conform	nity	Test Certificates	Marine / Shipping			
CE EG-Konf.	UK CA	Type Test Certifi ates/Test Repor			Lloyds Register us	
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