SIEMENS

Data sheet

3RA6120-1EB32



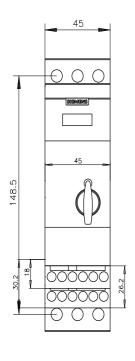
SIRIUS Compact load feeder DOL starter 690 V 24 V AC/DC 50...60 Hz 8...32 A IP20 Connection main circuit: screw terminal Connection auxiliary circuit: screw terminal

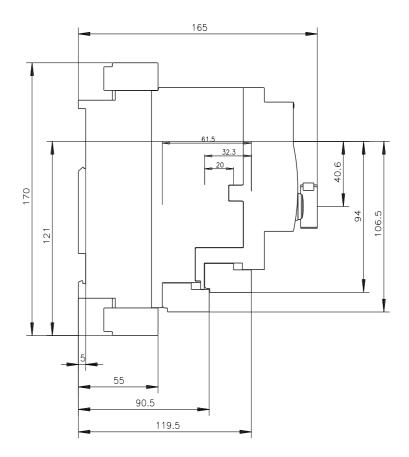
- COL 413	
product brand name	SIRIUS
product designation	compact starter
design of the product	direct starter
product type designation	3RA61
General technical data	
product function control circuit interface to parallel wiring	Yes
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 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	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
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 	10 000 000
 of auxiliary contacts typical 	10 000 000
 of the signaling contacts typical 	10 000 000
electrical endurance (operating cycles) of auxiliary contacts	
 at DC-13 at 6 A at 24 V typical 	30 000
 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
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 %

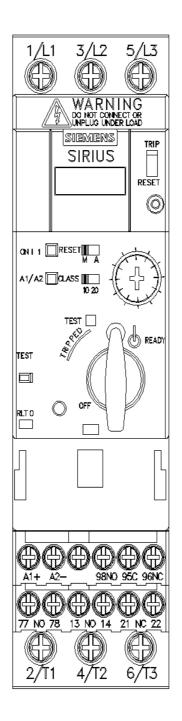
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	8 32 A
formula for making capacity limit current	12 x le
formula for limit current breaking capacity	10 x le
yielded mechanical performance for 4-pole AC motor	
• 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	
 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	24.14
• 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
1 rated value 2 rated value	50 HZ 60 Hz
control supply voltage 1	00112
at DC rated value	24 V
• at DC	24 v 24 24 V
holding power	LT LT V
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 (lcs)	
• at 400 V	53 kA
• at 500 V rated value	1 kA
• at 690 V rated value	1 kA
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	

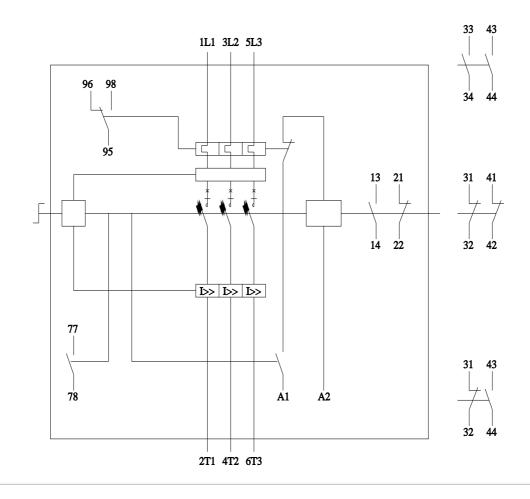
at 480 V rated value	32 A			
yielded mechanical performance [hp] for 3-phase AC motor				
 at 200/208 V rated value 	7.5 hp			
 at 220/230 V rated value 	10 hp			
• at 460/480 V rated value	20 hp			
contact rating of auxiliary contacts according to UL	contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 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	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				
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				
• solid	2x (2.5 6 mm²), 1x 10 mm²			
 finely stranded with core end processing 	2x (2.5 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				
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	100 FIT			
31920				
B10 value with high demand rate according to SN 31920	2 000 000			
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	2 kV main contacts, 1 kV auxiliary contacts			
61000-4-5				
 due to high-frequency radiation according to IEC 61000- 4-6 	0.15-80Mhz at 10V			
⁺ ⁻∪				

electrostatic discharge according to IEC 61000-4-2 Conducted HF interforence emissions according to CISPR11 Supply voltage Supply voltage required Auxiliary voltage No Hsplay number of LEDs Confirmation Confirmation Confirmation Confirmation Test Certificate Namine / Shipping Other Dangerous Good Namine / Shipping Confirmation C						
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