SIEMENS

Data sheet

3RA6120-1CB32



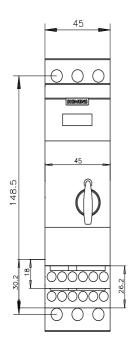
SIRIUS Compact load feeder DOL starter 690 V 24 V AC/DC 50...60 Hz 1...4 A IP20 Connection main circuit: screw terminal Connection auxiliary circuit: screw terminal

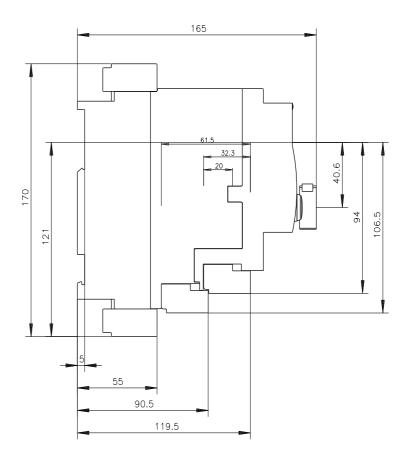
47.8					
product brand name	SIRIUS				
product designation	compact starter				
design of the product	direct starter				
product type designation	3RA61				
General technical data					
product function control circuit interface to parallel wiring	Yes				
product extension auxiliary switch	Yes				
power loss [W] for rated value of the current					
 at AC in hot operating state 	1 W				
 at AC in hot operating state per pole 	0.33 W				
 without load current share typical 	2.9 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				
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 	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				

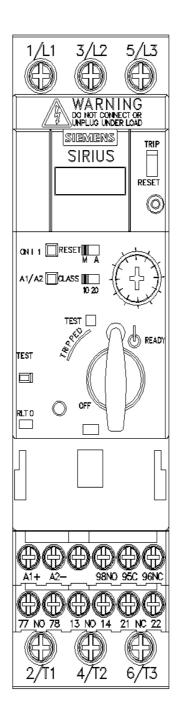
relative humidity during operation	10 90 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	1 4 A
formula for making capacity limit current	12 x le
formula for limit current breaking capacity	10 x le
yielded mechanical performance for 4-pole AC motor	
at 400 V rated value	1.5 kW
• at 500 V rated value	2.2 kW
at 690 V rated value	3 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
at AC at 400 V rated value	4 A
at AC-3 at 400 V rated value	4 A
• at AC-43	
— at 400 V rated value	3.6 A
— at 500 V rated value	3.9 A
— at 690 V rated value	3.8 A
operating power	
at AC-3 at 400 V rated value	1.5 kW
• at AC-43	
• at AC-43 — at 400 V rated value	1 500 W
— at 500 V rated value	2 200 W
— at 690 V rated value	3 000 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	2.8 W
● at DC maximum	2.9 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	

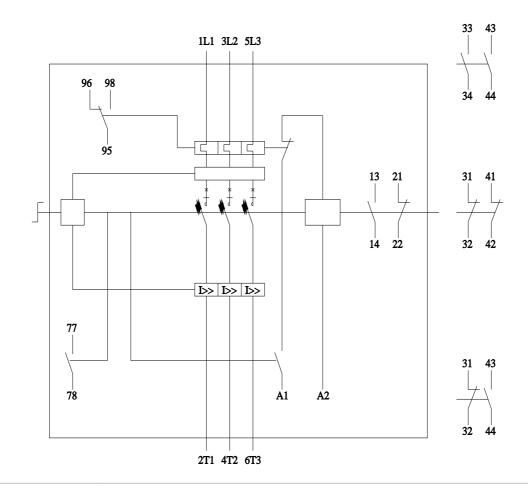
full-load current (FLA) for 3-phase AC motor				
at 480 V rated value	4 A			
at 600 V rated value	4A 4A			
yielded mechanical performance [hp] for 3-phase AC motor				
at 200/208 V rated value	0.75 hp			
• at 220/230 V rated value	0.75 hp			
• at 460/480 V rated value	2 hp			
• at 575/600 V rated value	2 hp 3 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 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				
• solid	2x (1.5 6 mm²), 1x 10 mm²			
 finely stranded with core end processing 	2x (1.5 6 mm ²)			
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 4 mm ² , 2x (0.5 2.5 mm ²)			
 for AWG cables for auxiliary contacts 	2x (20 14)			
Safety related data				
B10 value with high demand rate according to SN 31920	3 000 000			
proportion of dangerous failures				
	40 %			
with low demand rate according to SN 31920 with high demand rate according to SN 31920				
with high demand rate according to SN 31920 failure rate [EII] with low demand rate according to SN 31920	_ 50 % 100 FIT			
failure rate [FIT] with low demand rate according to SN 31920 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	No			
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	ing to IEC 61000	0 15 9	0 Mbz at 10 /				
 due to high-frequency radiation according to IEC 61000- 4-6 		0.15-0	0.15-80Mhz at 10V				
field-based interference according to IEC 61000-4-3		10 V/m	ı				
electrostatic discharge according to IEC 61000-4-2		8 kV					
conducted HF interference emissions according to CISPR11		150 k⊦	150 kHz 30 MHz Class A				
field-bound HF interference emission according to CISPR11			000 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 Ma- chinery		
Confirmation	(ل س		EHC	RCM	DE		
Declaration of Conformity	Test Certificate	tes	Marine / Shipping				
CE UK	Type Test Cer	rtific-		¥ 8			
	<u>ates/Test Re</u> r	<u>port</u>	ABS				
Marine / Shipping	other		Dangerous Good				
PRS RINA	<u>Confirmatio</u>	<u>on</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							
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