## SIEMENS

## Data sheet

## 3RA6250-1AB33



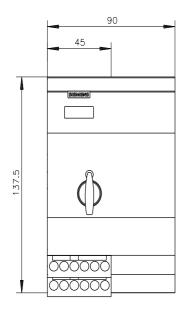
SIRIUS Compact load feeder Reversing starter 690 V 24 V AC/DC 50...60 Hz 0.1...0.4 A IP20 Connection main circuit: plug-in, without terminals Connection control circuit: screw terminal

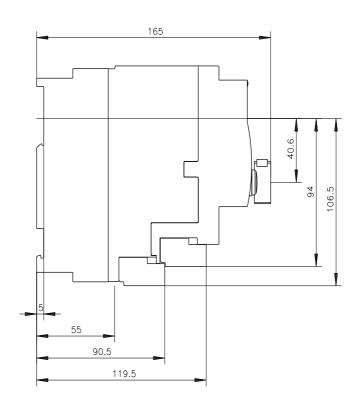
product brand name	SIRIUS			
product designation	compact starter			
design of the product	reversing starter			
product type designation	3RA62			
General technical data				
product function control circuit interface to parallel wiring	Yes			
product extension auxiliary switch	Yes			
power loss [W] for rated value of the current				
<ul> <li>at AC in hot operating state</li> </ul>	0.01 W			
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.01 W			
<ul> <li>without load current share typical</li> </ul>	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				
<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			
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 %			

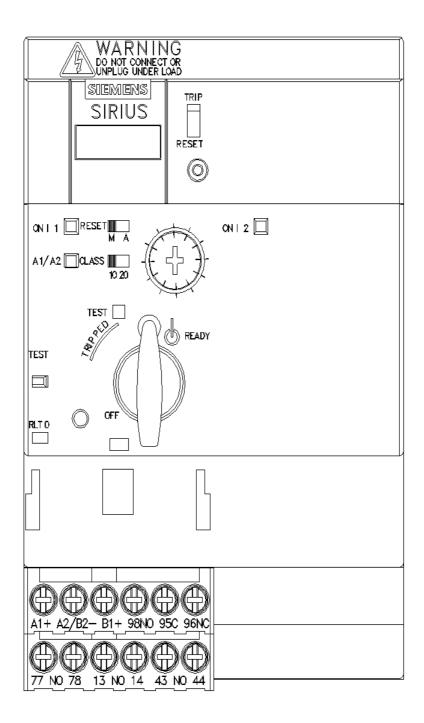
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	0.1 0.4 A
formula for making capacity limit current	120 x le
formula for limit current breaking capacity	100 x le
yielded mechanical performance for 4-pole AC motor	
at 400 V rated value	0.09 kW
• at 500 V rated value	0.12 kW
• at 690 V rated value	0.18 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC at 400 V rated value</li> </ul>	0.4 A
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	0.4 A
• at AC-43	
— at 400 V rated value	0.3 A
— at 500 V rated value	0.32 A
— at 690 V rated value	0.35 A
operating power	
• at AC-3 at 400 V rated value	0.09 kW
• at AC-43	
— at 400 V rated value	90 W
— at 500 V rated value	120 W
— at 690 V rated value	180 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
<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	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	0.014
at AC maximum	2.8 W
• at DC maximum	2.9 W
Auxiliary circuit	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	2
number of NO contacts of instantaneous short-circuit trip unit for signaling contact	
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)	50.14
• 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	

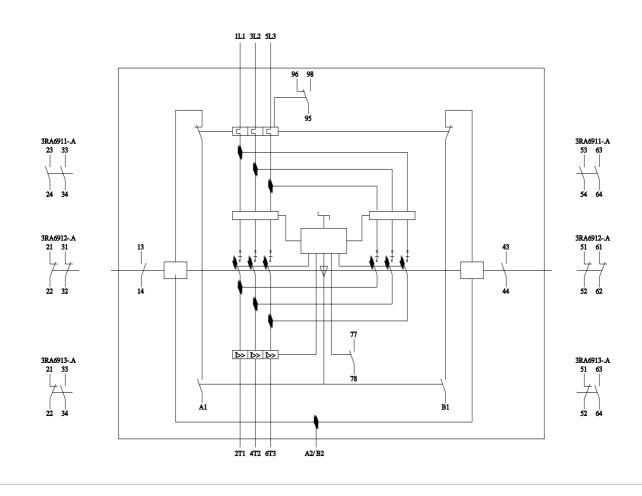
• at 480 V rated value	0.4 A			
at 600 V rated value	0.4 A			
contact rating of auxiliary contacts according to UL	contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 77-78 R300 / B300, contacts 95-96-98 R300 / D300			
Short-circuit protection				
product function short circuit protection	Yes			
design 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			
<ul> <li>short-circuit release required</li> <li>for short-circuit protection of the signaling switch of the supplementation of the signaling switch of the supplementation.</li> </ul>	4A gL/gG/400V			
overload release required Installation/ mounting/ dimensions				
	2014			
mounting position <ul> <li>recommended</li> </ul>	any vertical, on horizontal standard DIN rail			
fastening method	screw and snap-on mounting			
height	170 mm			
width	90 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	plug-in without 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>				
— 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				
proportion of dangerous failures				
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %			
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %			
failure rate [FIT] with low demand rate according to SN 31920	100 FIT			
B10 value with high demand rate according to SN 31920	3 000 000			
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			
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC</li> </ul>	4 kV main contacts, 2 kV auxiliary contacts 2 kV main contacts, 1 kV auxiliary contacts			
<ul> <li>61000-4-5</li> <li>due to high-frequency radiation according to IEC 61000-</li> </ul>	0.15-80Mhz at 10V			
4-6 field based interference according to JEC 64000.4.2	10 \//m			
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	150 kHz 30 MHz Class A			

CISPR11						
field-bound HF interfe	erence emission accord	ing to CISPR11 30	1000 MHz Class A			
Supply voltage						
Supply voltage require	red Auxiliary voltage	No				
Display						
number of LEDs		3				
Approvals Certificates						
General Product App	proval			EMC	Functional Safety/Safety of Ma- chinery	
<u>Confirmation</u>			EAC	RCM		
Declaration of Confo	rmity	Test Certificates	Marine / Shipping			
UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	ABS		Llovd's Kegister urs	
Marine / Shipping	other	Dangerous Good				
PRS	<u>Confirmation</u>	Transport Information	L			
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						
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			en&mlfb=3RA6250-1AB	<u>33</u>		
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http://www.automation						









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