

SIRIUS Compact load feeder Reversing starter 400 V 24 V AC/DC
50...60 Hz 8...32 A IP20 Connection main circuit: plug-in, without
terminals Connection control circuit: plug-in, without terminals



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 - at AC in hot operating state - at AC in hot operating state per pole	5.4 W 1.8 W
Power loss [W] for rated value of the current 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 safe isolation	

• between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit	400 V 250 V 300 V
Protection class IP	IP20
Shock resistance	a=60 m/s ² (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/s ² ; 10 cycles
Mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical • of the signaling contacts typical	10 000 000 10 000 000 10 000 000
Electrical endurance (switching cycles) of auxiliary contacts • at DC-13 at 6 A at 24 V typical • at AC-15 at 6 A at 230 V typical	30 000 200 000
Type of assignment	continous operation according to IEC 60947-6-2
Reference code acc. to DIN EN 81346-2	Q
Reference code acc. to DIN EN 61346-2	Q

Ambient conditions

Installation altitude at height above sea level • maximum	2 000 m
Ambient temperature • during operation • during storage • during transport	-20 ... +60 °C -55 ... +80 °C -55 ... +80 °C
Relative humidity during operation	10 ... 90 %

Main circuit

Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	8 ... 32 A
Formula for making capacity limit current	12 x I _e
Formula for interruption capacity limit current	10 x I _e
Mechanical power output for 4-pole AC motor • at 400 V rated value	15 kW
Operating voltage • at AC-3 rated value maximum	400 V
Operating current • at AC at 400 V rated value • at AC-43 — at 400 V rated value	32 A 29 A
Operating power • at AC-3 — at 400 V rated value	15 kW

• at AC-43 — at 400 V rated value	15 000 W
No-load switching frequency	3 600 1/h
Operating frequency	
• at AC-41 acc. to IEC 60947-6-2 maximum • at AC-43 acc. to IEC 60947-6-2 maximum	750 1/h 250 1/h

Control circuit/ Control

Type of voltage	AC/DC
Control supply voltage 1 at AC	
• at 50 Hz rated value • at 60 Hz rated value	24 V 24 V
Control supply voltage frequency	
• 1 rated value • 2 rated value	50 Hz 60 Hz
Control supply voltage 1	
• at DC rated value	24 V
Holding power	
• at AC maximum • at DC maximum	3.5 W 3.1 W

Auxiliary circuit

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	1
Number of CO contacts	
• of the current-dependent overload release for signaling contact	1
Operating current of auxiliary contacts at AC-12 maximum	10 A
Operating current of auxiliary contacts at DC-13	
• at 250 V	0.27 A

Protective and monitoring functions

Trip class	CLASS 10 and 20 adjustable
Operational short-circuit current breaking capacity (Ics)	
• at 400 V	53 kA

UL/CSA ratings

Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	32 A
Yielded mechanical performance [hp]	

• for three-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value	7.5 hp 10 hp 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 • for short-circuit protection of the signaling switch of the short-circuit release required • for short-circuit protection of the signaling switch of the overload release required	fuse gL/gG: 10 A 6A gL/gG/400V 4A gL/gG/400V

Installation/ mounting/ dimensions	
Mounting position • recommended	any vertical, on horizontal standard mounting rail
Mounting type	screw and snap-on mounting
Height	170 mm
Width	90 mm
Depth	165 mm

Connections/ Terminals	
Product function • removable terminal for main circuit • removable terminal for auxiliary and control circuit	Yes Yes
Type of electrical connection • for main current circuit • for auxiliary and control current circuit	plug-in without terminals plug-in without terminals

Safety related data	
B10 value • with high demand rate acc. to SN 31920	2 000 000
Proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920	40 % 50 %
Failure rate [FIT] • with low demand rate acc. to SN 31920	100 FIT
T1 value for proof test interval or service life acc. to IEC 61508	20 y

Communication/ Protocol	
Product function Bus communication	No
Protocol is supported	
• IO-Link protocol	No
Product function Control circuit interface with IO link	No
Electromagnetic compatibility	
Conducted interference	
• due to burst acc. to IEC 61000-4-4	4 kV main contacts, 2 kV auxiliary contacts
• due to conductor-earth surge acc. to IEC 61000-4-5	4 kV main contacts, 2 kV auxiliary contacts
• due to conductor-conductor surge acc. to IEC 61000-4-5	2 kV main contacts, 1 kV auxiliary contacts
• due to high-frequency radiation acc. to IEC 61000-4-6	0.15-80Mhz at 10V
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
Electrostatic discharge acc. to IEC 61000-4-2	8 kV
Conducted HF-interference emissions acc. to CISPR11	150 kHz ... 30 MHz Class A
Field-bound HF-interference emission acc. to CISPR11	30 ... 1000 MHz Class A
Supply voltage	
Supply voltage required Auxiliary voltage	No
Certificates/ approvals	

General Product Approval	EMC	Functional Safety/Safety of Machinery
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Declaration of Conformity	Test Certificates	Marine / Shipping
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EG-Konf.

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)



ABS



BUREAU VERITAS



LRS

Marine / Shipping	other
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PRS



RINA



RMRS



DNVGL.COM/AF

[Confirmation](#)

Further information

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=3RA6250-0EB30>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6250-0EB30>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-0EB30>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6250-0EB30&lang=en

Characteristic: Tripping characteristics, I_t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-0EB30/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6250-0EB30&objecttype=14&gridview=view1>



