

SIRIUS Compact load feeder Reversing starter 690 V 24 V AC/DC
50...60 Hz 0.32...1.25 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	
<ul style="list-style-type: none"> control circuit interface to parallel wiring 	Yes
product extension	
<ul style="list-style-type: none"> auxiliary switch 	Yes
power loss [W] for rated value of the current	
<ul style="list-style-type: none"> at AC in hot operating state 	0.1 W
<ul style="list-style-type: none"> at AC in hot operating state per pole 	0.03 W
power loss [W] for rated value of the current without load current share typical	2.9 W
insulation voltage	
<ul style="list-style-type: none"> rated value 	690 V
degree of pollution	3
surge voltage resistance rated value	6 000 V
maximum permissible voltage for safe isolation	

<ul style="list-style-type: none"> • between main and auxiliary circuit 	400 V
<ul style="list-style-type: none"> • between auxiliary and auxiliary circuit 	250 V
<ul style="list-style-type: none"> • between control and auxiliary circuit 	300 V
protection class IP	IP20
degree of protection NEMA rating	other
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)	
<ul style="list-style-type: none"> • of the main contacts typical 	10 000 000
<ul style="list-style-type: none"> • of auxiliary contacts typical 	10 000 000
<ul style="list-style-type: none"> • of the signaling contacts typical 	10 000 000
electrical endurance (switching cycles) of auxiliary contacts	
<ul style="list-style-type: none"> • at DC-13 at 6 A at 24 V typical 	30 000
<ul style="list-style-type: none"> • at AC-15 at 6 A at 230 V typical 	200 000
type of assignment	continuous operation according to IEC 60947-6-2
reference code acc. to DIN EN 81346-2	Q

Ambient conditions

<ul style="list-style-type: none"> • installation altitude at height above sea level maximum 	2 000 m
ambient temperature	
<ul style="list-style-type: none"> • during operation 	-20 ... +60 °C
<ul style="list-style-type: none"> • during storage 	-55 ... +80 °C
<ul style="list-style-type: none"> • during transport 	-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	0.32 ... 1.25 A
formula for making capacity limit current	38.4 x I _e
formula for interruption capacity limit current	32 x I _e
mechanical power output for 4-pole AC motor	
<ul style="list-style-type: none"> • at 400 V rated value 	0.37 kW
<ul style="list-style-type: none"> • at 500 V rated value 	0.55 kW
<ul style="list-style-type: none"> • at 690 V rated value 	0.75 kW
operating voltage	
<ul style="list-style-type: none"> • at AC-3 rated value maximum 	690 V
operating current	
<ul style="list-style-type: none"> • at AC at 400 V rated value 	1.25 A
<ul style="list-style-type: none"> • at AC-43 	
<ul style="list-style-type: none"> — at 400 V rated value 	1.1 A
<ul style="list-style-type: none"> — at 500 V rated value 	1.2 A

— at 690 V rated value	1.1 A
operating power	
• at AC-3	
— at 400 V rated value	370 W
• at AC-43	
— at 400 V rated value	370 W
— at 500 V rated value	550 W
— at 690 V rated value	750 W
no-load switching frequency	3 600 1/h
operating frequency	
• at AC-41 acc. to IEC 60947-6-2 maximum	750 1/h
• at AC-43 acc. 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 60 Hz rated value	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
holding power	
• at AC maximum	2.8 W
• at DC maximum	2.9 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
• at 500 V rated value	3 kA
• at 690 V rated value	3 kA

UL/CSA ratings

full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	1.25 A
• at 600 V rated value	1.25 A
yielded mechanical performance [hp]	
• for three-phase AC motor	
— at 460/480 V rated value	0.5 hp
— at 575/600 V rated value	0.5 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 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	Yes
• removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
• for main current circuit	plug-in without terminals
• for auxiliary and control current circuit	plug-in without terminals

Safety related data

B10 value	
• with high demand rate acc. to SN 31920	3 000 000

proportion of dangerous failures	
<ul style="list-style-type: none"> • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 	40 % 50 %
failure rate [FIT]	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • AS-Interface protocol • IO-Link protocol 	No No
product function control circuit interface with IO link	No

Electromagnetic compatibility

conducted interference	
<ul style="list-style-type: none"> • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 	4 kV main contacts, 2 kV auxiliary contacts 4 kV main contacts, 2 kV auxiliary contacts 2 kV main contacts, 1 kV auxiliary contacts 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
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Display

number of LEDs	3
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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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[Miscellaneous](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping	other
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[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=3RA6250-0BB30>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6250-0BB30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-0BB30>

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

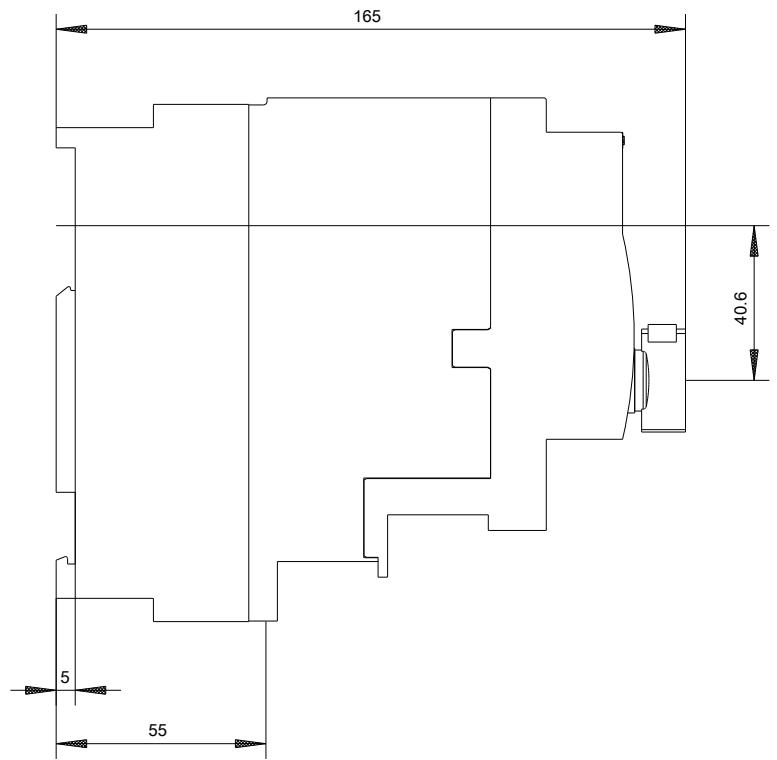
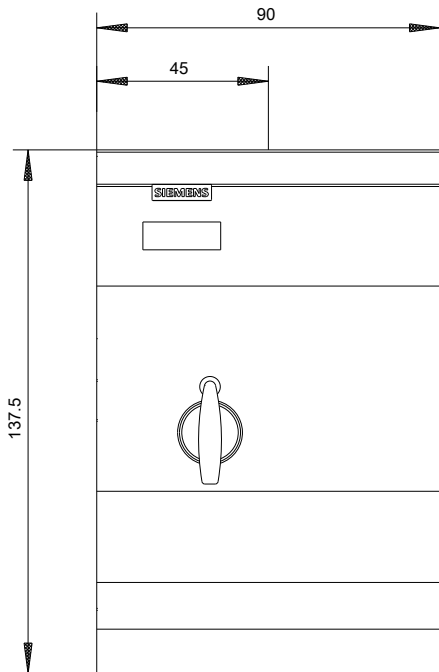
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6250-0BB30&lang=en

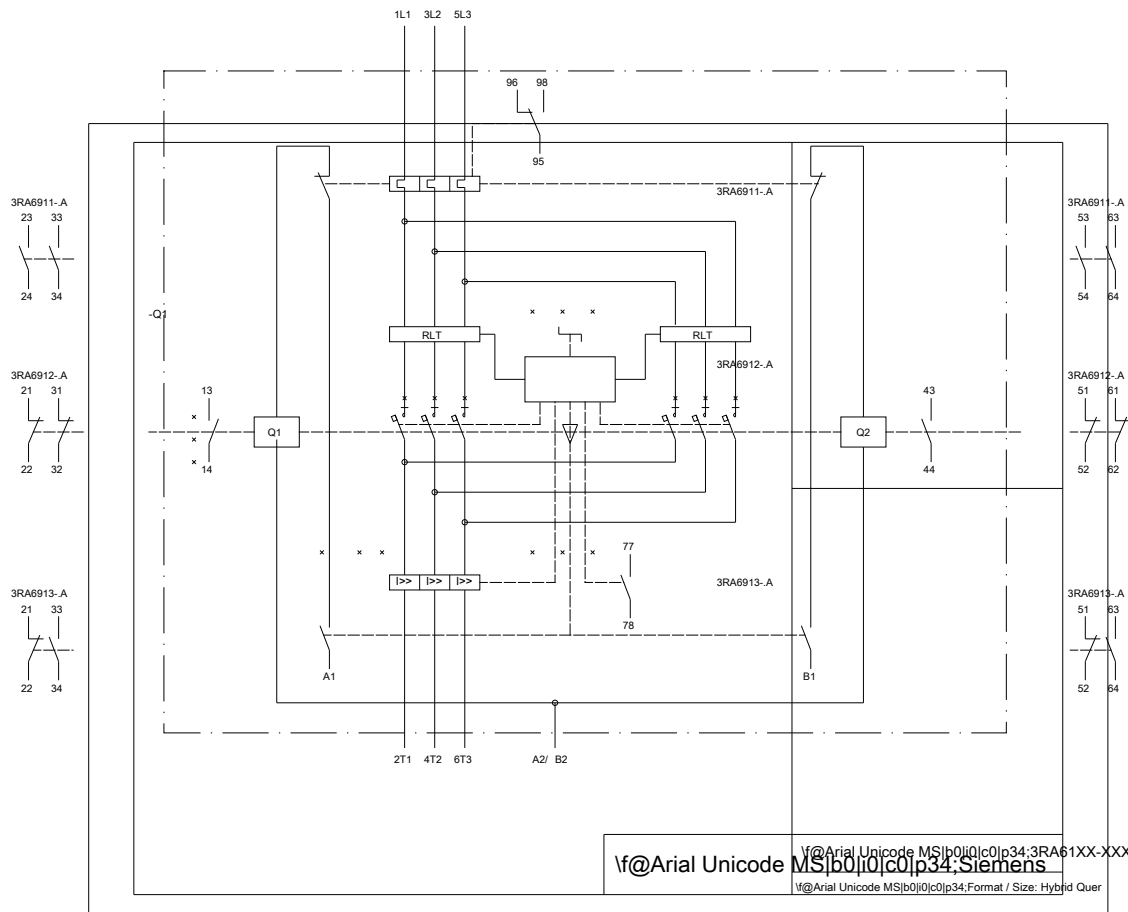
Characteristic: Tripping characteristics, I^t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-0BB30/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6250-0BB30&objecttype=14&gridview=view1>





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