

SIRIUS, COMPACT STARTER, REVERSING STARTER 400 V, 24 V AC/DC, 50 ... 60 HZ, 8 ... 32 A, IP20, MAIN CIRCUIT CONNECTION: PLUG-IN, W/O TERMINALS, AUXILIARY CIRCUIT CONNECTION: SCREW TERMINAL



| | |
|-----------------------|------------------|
| Product brand name | SIRIUS |
| Product designation | compact starter |
| Design of the product | reversing feeder |

General technical data

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| 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 |
| 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 auxiliary and auxiliary circuit between control and auxiliary circuit between main and auxiliary circuit | 250 V 300 V 400 V |
| Protection class IP | IP20 |
| 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 |
| Equipment marking | |
| <ul style="list-style-type: none"> • acc. to DIN EN 61346-2 | Q |
| <ul style="list-style-type: none"> • acc. to DIN EN 81346-2 | Q |

Ambient conditions

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|--|----------------|
| 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 |

Main circuit

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|--|---------------------|
| 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 | |
| <ul style="list-style-type: none"> • at 400 V rated value | 15 kW |
| Operating voltage | |
| <ul style="list-style-type: none"> • at AC-3 rated value maximum | 400 V |
| Operating current | |
| <ul style="list-style-type: none"> • at AC at 400 V rated value | 32 A |
| <ul style="list-style-type: none"> • at AC-43 <ul style="list-style-type: none"> — at 400 V rated value | 29 A |
| No-load switching frequency | 3 600 1/h |
| Operating frequency | |
| <ul style="list-style-type: none"> • at AC-41 acc. to IEC 60947-6-2 maximum | 750 1/h |
| <ul style="list-style-type: none"> • at AC-43 acc. to IEC 60947-6-2 maximum | 250 1/h |

Control circuit/ Control

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|--|-------|
| Type of voltage | AC/DC |
| Control supply voltage 1 at AC | |
| <ul style="list-style-type: none"> • at 50 Hz rated value | 24 V |
| <ul style="list-style-type: none"> • at 60 Hz rated value | 24 V |
| Control supply voltage 1 | |
| <ul style="list-style-type: none"> • at DC rated value | 24 V |

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| Holding power | |
| • at AC maximum | 3.5 W |
| • at DC maximum | 3.1 W |

Auxiliary circuit

| | |
|---|--------|
| Number of NC contacts | |
| • for auxiliary contacts | 0 |
| Number of NO contacts | |
| • for auxiliary contacts | 2 |
| • 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

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|--|----------------------------|
| Trip class | CLASS 10 and 20 adjustable |
| Off-delay time | 50 ms |
| Operational short-circuit current breaking capacity (Ics) | |
| • at 400 V | 53 kA |

UL/CSA ratings

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|---|---|
| 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 | 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

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|--|------------------|
| Product function Short circuit protection | Yes |
| 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 |
| <ul style="list-style-type: none"> • 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 | |
| <ul style="list-style-type: none"> • removable terminal for main circuit | Yes |
| <ul style="list-style-type: none"> • removable terminal for auxiliary and control circuit | Yes |
| Type of electrical connection | |
| <ul style="list-style-type: none"> • for main current circuit | plug-in without terminals |
| <ul style="list-style-type: none"> • for auxiliary and control current circuit | screw-type terminals |
| Type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — solid | 2x (2.5 ... 6 mm ²), 1x 10 mm ² |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> — finely stranded with core end processing | 2x (2.5 ... 6 mm ²) |
| <ul style="list-style-type: none"> • at AWG conductors for main contacts | 2x (14 ... 10), 1x 8 |
| Type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid | 0.5 ... 4 mm ² , 2x (0.5 ... 2.5 mm ²) |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> — finely stranded with core end processing | 0.5 ... 2.5 mm ² , 2x (0.5 ... 1.5 mm ²) |
| <ul style="list-style-type: none"> • at AWG conductors for auxiliary contacts | 2x (20 ... 14) |

| Safety related data | |
|--|-----------|
| B10 value | |
| <ul style="list-style-type: none"> • with high demand rate acc. to SN 31920 | 2 000 000 |
| Proportion of dangerous failures | |
| <ul style="list-style-type: none"> • with low demand rate acc. to SN 31920 | 40 % |
| <ul style="list-style-type: none"> • with high demand rate acc. to SN 31920 | 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"> • IO-Link protocol | No |

| Electromagnetic compatibility | |
|---|--------|
| Field-bound parasitic coupling acc. to IEC 61000-4-3 | 10 V/m |

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| 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

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|---|----|
| Supply voltage required Auxiliary voltage | No |
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Certificates/approvals

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|--------------------------|-----|---------------------------------------|
| General Product Approval | EMC | Functional Safety/Safety of Machinery |
|--------------------------|-----|---------------------------------------|



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|---------------------------|-------------------|-------------------|
| Declaration of Conformity | Test Certificates | Marine / Shipping |
|---------------------------|-------------------|-------------------|



[Type Test Certificates/Test Report](#)



| | |
|-------------------|-------|
| Marine / Shipping | other |
|-------------------|-------|



[Environmental Confirmations](#)

[Confirmation](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3RA6250-1EB33>

Cax online generator

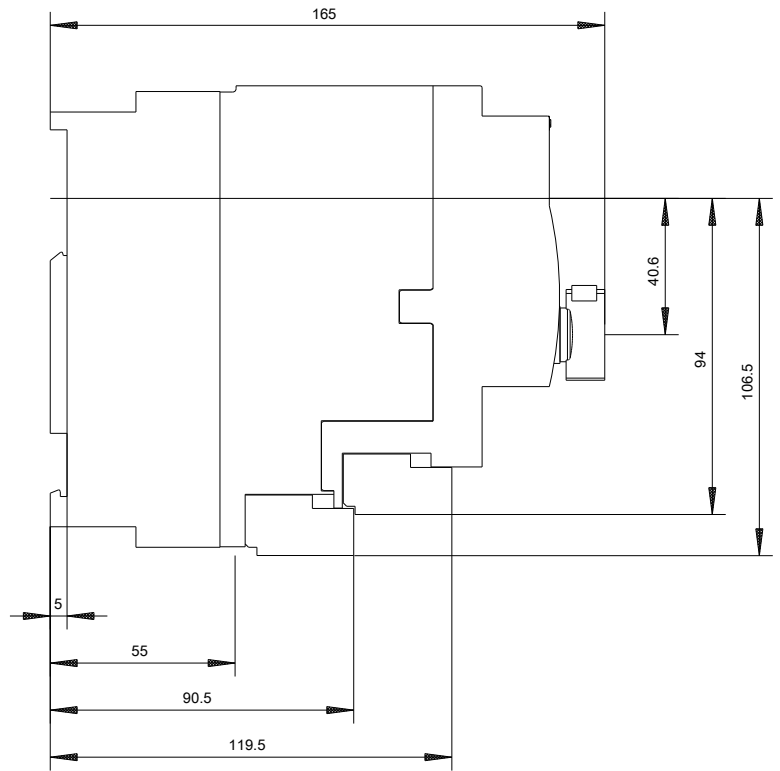
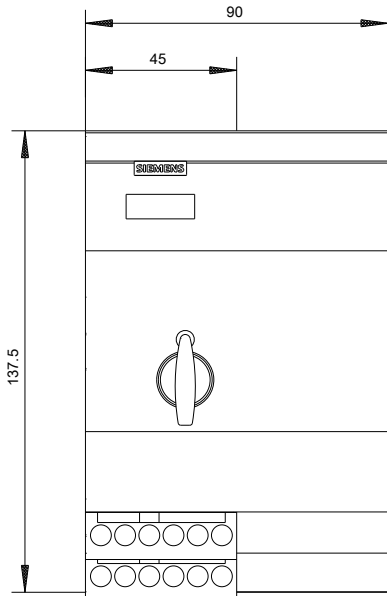
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RA6250-1EB33>

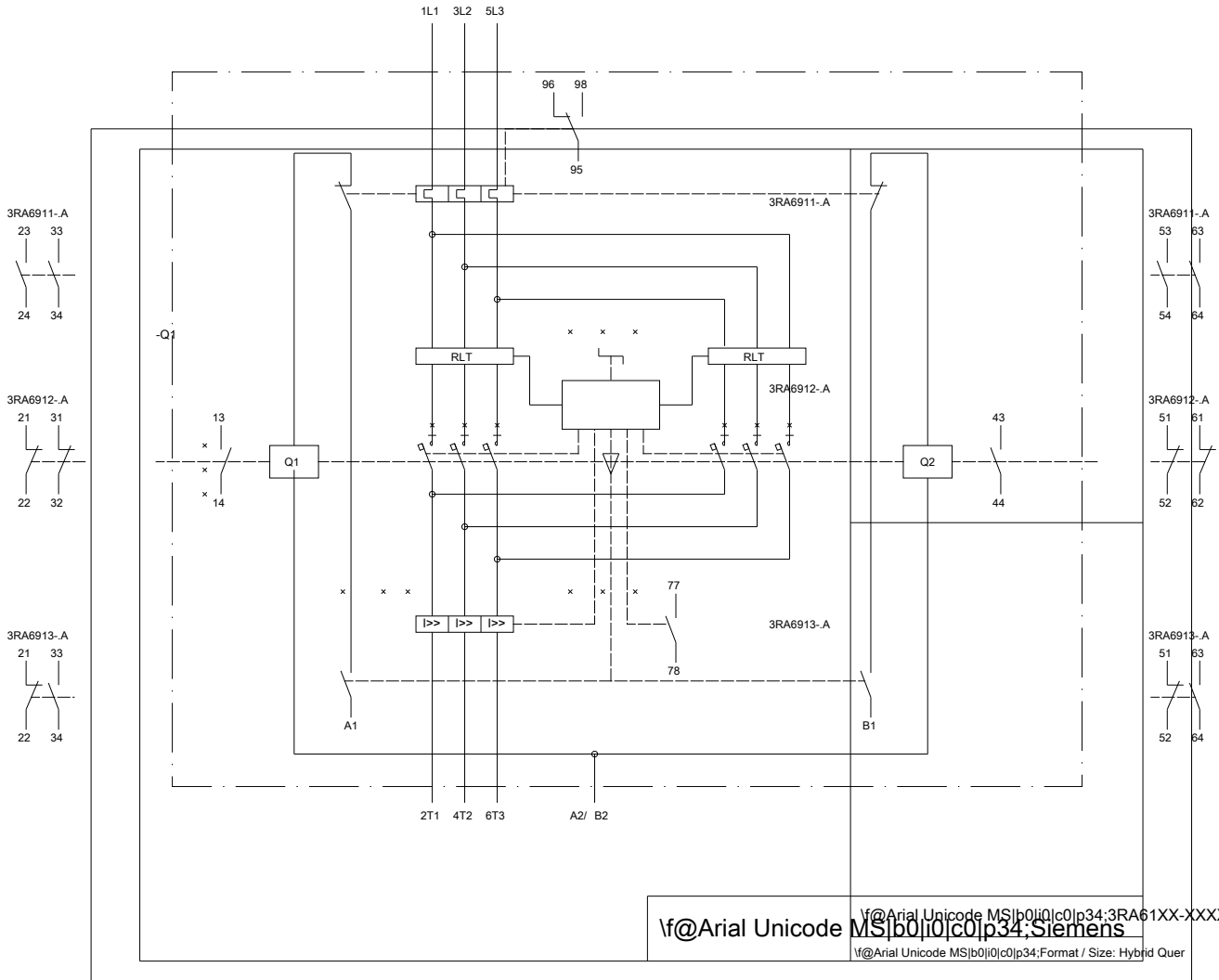
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-1EB33>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RA6250-1EB33&lang=en





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