



SIRIUS Compact load feeder Reversing starter 690 V 24 V AC/DC 50...60 Hz 1...4 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                                                                                                    |
| <b>General technical data</b>                                 |                                                                                                          |
| 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/s <sup>2</sup> (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 <sup>2</sup> ; 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                                            | continuous operation according to IEC 60947-6-2                                                          |
| reference code according to IEC 81346-2                       | Q                                                                                                        |
| Substance Prohibitance (Date)                                 | 05/01/2012                                                                                               |
| SVHC substance name                                           | Lead - 7439-92-1<br>Lead monoxide (lead oxide) - 1317-36-8<br>Lead titanium zirconium oxide - 12626-81-2 |
| Weight                                                        | 2.424 kg                                                                                                 |
| <b>Ambient conditions</b>                                     |                                                                                                          |
| 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 %                |
| <b>Main circuit</b>                                                                   |                            |
| 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 I <sub>e</sub>        |
| formula for limit current breaking capacity                                           | 10 x I <sub>e</sub>        |
| 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 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                    |
| <b>Control circuit/ Control</b>                                                       |                            |
| 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                       |
| control supply voltage 1 at DC                                                        | 24 ... 24 V                |
| holding power                                                                         |                            |
| • at AC maximum                                                                       | 2.8 W                      |
| • at DC maximum                                                                       | 2.9 W                      |
| <b>Auxiliary circuit</b>                                                              |                            |
| 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                          |
| 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                     |
| <b>Protective and monitoring functions</b>                                            |                            |
| trip class                                                                            | CLASS 10 and 20 adjustable |
| operating short-circuit current breaking capacity (I <sub>cs</sub> )                  |                            |
| • at 400 V rated value                                                                | 53 kA                      |
| • at 500 V rated value                                                                | 3 kA                       |
| • at 690 V rated value                                                                | 3 kA                       |
| <b>UL/CSA ratings</b>                                                                 |                            |
| full-load current (FLA) for 3-phase AC motor                                          |                            |

|                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 480 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                | 4 A<br>4 A                                                                                                                                                         |
| yielded mechanical performance [hp] for 3-phase AC motor <ul style="list-style-type: none"> <li>• at 200/208 V rated value</li> <li>• at 220/230 V rated value</li> <li>• at 460/480 V rated value</li> <li>• at 575/600 V rated value</li> </ul>                                                                                                       | 0.75 hp<br>0.75 hp<br>2 hp<br>3 hp                                                                                                                                 |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                                                                             | contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 77-78 R300 / B300, contacts 95-96-98 R300 / D300                                                                |
| <b>Short-circuit protection</b>                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                    |
| <b>product function short circuit protection</b>                                                                                                                                                                                                                                                                                                        | Yes                                                                                                                                                                |
| <b>design of short-circuit protection</b>                                                                                                                                                                                                                                                                                                               | electromagnetic                                                                                                                                                    |
| <b>design of the fuse link</b> <ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch required</li> <li>• for short-circuit protection of the signaling switch of the short-circuit release required</li> <li>• for short-circuit protection of the signaling switch of the overload release required</li> </ul> | fuse gL/gG: 10 A<br>6A gL/gG/400V<br><br>4A gL/gG/400V                                                                                                             |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                    |
| <b>mounting position</b>                                                                                                                                                                                                                                                                                                                                | any                                                                                                                                                                |
| <b>mounting position recommended</b>                                                                                                                                                                                                                                                                                                                    | vertical, on horizontal standard DIN rail                                                                                                                          |
| <b>fastening method</b>                                                                                                                                                                                                                                                                                                                                 | screw and snap-on mounting                                                                                                                                         |
| <b>height</b>                                                                                                                                                                                                                                                                                                                                           | 170 mm                                                                                                                                                             |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                            | 90 mm                                                                                                                                                              |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                            | 165 mm                                                                                                                                                             |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                    |
| <b>product component removable terminal for main circuit</b>                                                                                                                                                                                                                                                                                            | Yes                                                                                                                                                                |
| <b>product component removable terminal for auxiliary and control circuit</b>                                                                                                                                                                                                                                                                           | Yes                                                                                                                                                                |
| <b>type of electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control circuit</li> </ul>                                                                                                                                                                                          | plug-in without terminals<br>plug-in without terminals                                                                                                             |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                    |
| <b>proportion of dangerous failures</b> <ul style="list-style-type: none"> <li>• with low demand rate according to SN 31920</li> <li>• with high demand rate according to SN 31920</li> </ul>                                                                                                                                                           | 40 %<br>50 %                                                                                                                                                       |
| <b>B10 value with high demand rate according to SN 31920</b>                                                                                                                                                                                                                                                                                            | 3 000 000                                                                                                                                                          |
| <b>failure rate [FIT] with low demand rate according to SN 31920</b>                                                                                                                                                                                                                                                                                    | 100 FIT                                                                                                                                                            |
| <b>IEC 61508</b>                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                    |
| T1 value for proof test interval or service life according to IEC 61508                                                                                                                                                                                                                                                                                 | 20 a                                                                                                                                                               |
| <b>Electrical Safety</b>                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                    |
| <b>protection class IP on the front according to IEC 60529</b>                                                                                                                                                                                                                                                                                          | IP20                                                                                                                                                               |
| <b>touch protection on the front according to IEC 60529</b>                                                                                                                                                                                                                                                                                             | finger-safe                                                                                                                                                        |
| <b>Communication/ Protocol</b>                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                    |
| <b>product function bus communication</b>                                                                                                                                                                                                                                                                                                               | No                                                                                                                                                                 |
| <b>protocol is supported</b> <ul style="list-style-type: none"> <li>• AS-Interface protocol</li> <li>• IO-Link protocol</li> </ul>                                                                                                                                                                                                                      | No<br>No                                                                                                                                                           |
| product function control circuit interface with IO link                                                                                                                                                                                                                                                                                                 | No                                                                                                                                                                 |
| <b>Electromagnetic compatibility</b>                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                    |
| <b>conducted interference</b> <ul style="list-style-type: none"> <li>• due to burst according to IEC 61000-4-4</li> <li>• due to conductor-earth surge according to IEC 61000-4-5</li> <li>• due to conductor-conductor surge according to IEC 61000-4-5</li> <li>• due to high-frequency radiation according to IEC 61000-4-6</li> </ul>               | 4 kV main contacts, 2 kV auxiliary contacts<br>4 kV main contacts, 2 kV auxiliary contacts<br>2 kV main contacts, 1 kV auxiliary contacts<br><br>0.15-80Mhz at 10V |
| <b>field-based interference according to IEC 61000-4-3</b>                                                                                                                                                                                                                                                                                              | 10 V/m                                                                                                                                                             |
| <b>electrostatic discharge according to IEC 61000-4-2</b>                                                                                                                                                                                                                                                                                               | 8 kV                                                                                                                                                               |
| <b>conducted HF interference emissions according to CISPR11</b>                                                                                                                                                                                                                                                                                         | 150 kHz ... 30 MHz Class A                                                                                                                                         |

|                                                           |                         |
|-----------------------------------------------------------|-------------------------|
| field-bound HF interference emission according to CISPR11 | 30 ... 1000 MHz Class A |
| <b>Supply voltage</b>                                     |                         |
| Supply voltage required Auxiliary voltage                 | No                      |
| <b>Display</b>                                            |                         |
| number of LEDs                                            | 3                       |
| <b>Approvals Certificates</b>                             |                         |
| <b>General Product Approval</b>                           |                         |



[Confirmation](#)



|     |                   |                                                    |                   |                              |                                       |
|-----|-------------------|----------------------------------------------------|-------------------|------------------------------|---------------------------------------|
| EMV | Functional Safety | Test Certificates                                  | Marine / Shipping | other                        | Dangerous goods                       |
|     |                   | <a href="#">Type Test Certificates/Test Report</a> |                   | <a href="#">Confirmation</a> | <a href="#">Transport Information</a> |

#### Environment

[Environmental Conformations](#)

#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3RA6250-0CB30>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6250-0CB30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-0CB30>

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

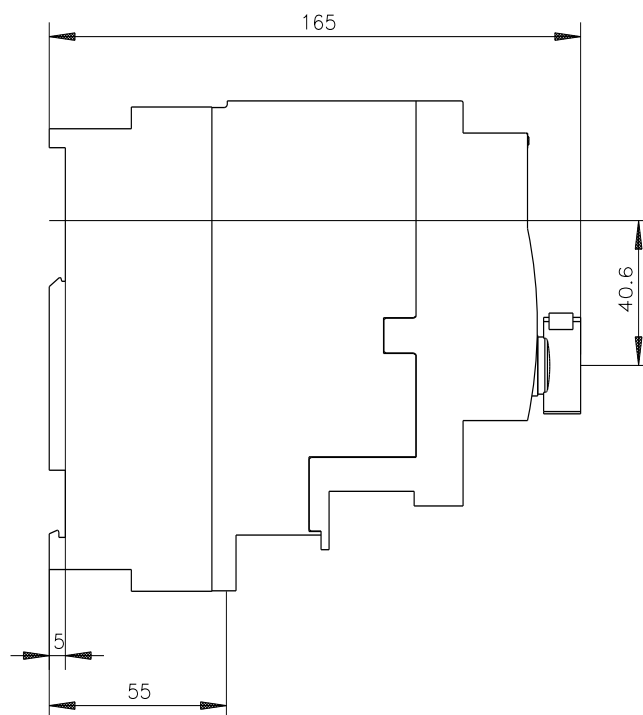
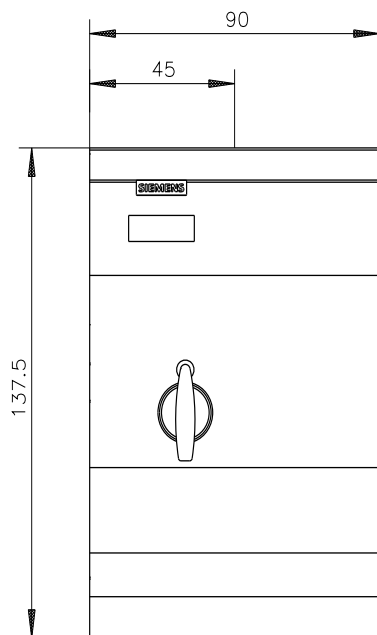
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA6250-0CB30&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6250-0CB30&lang=en)

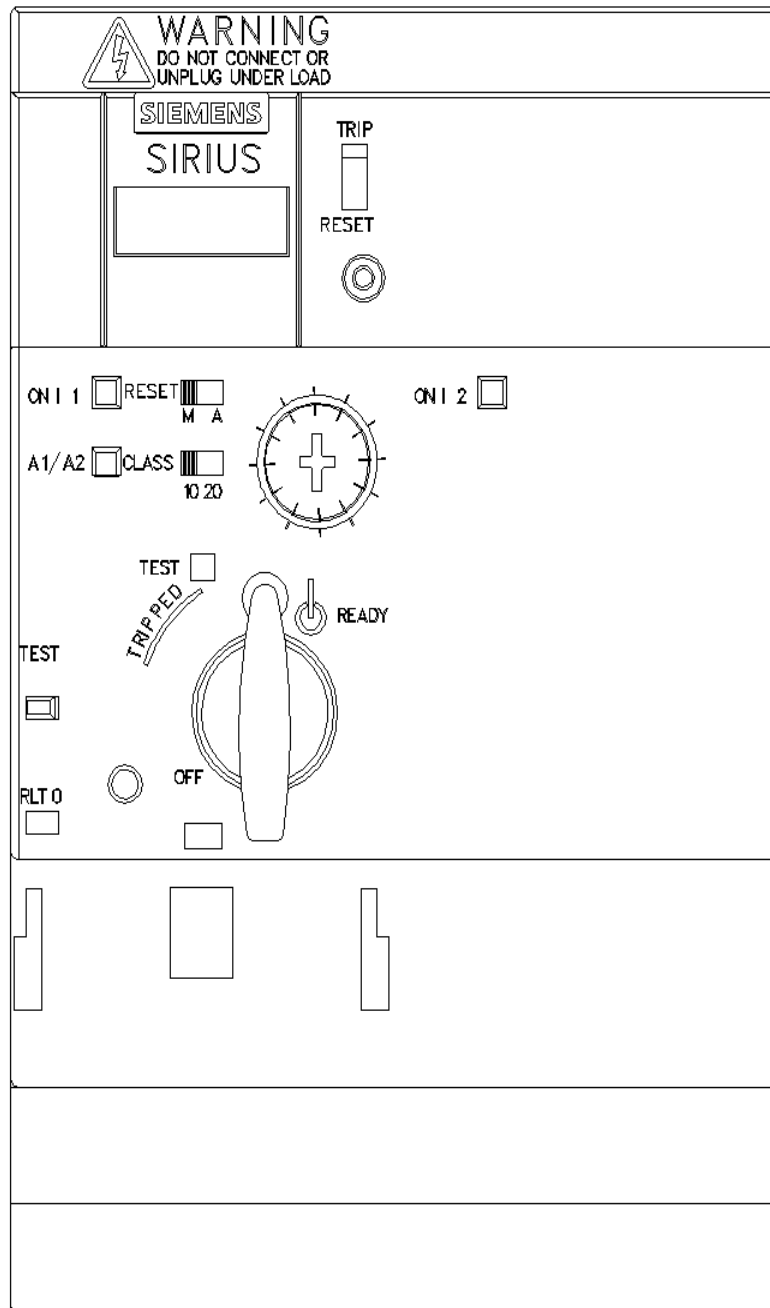
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

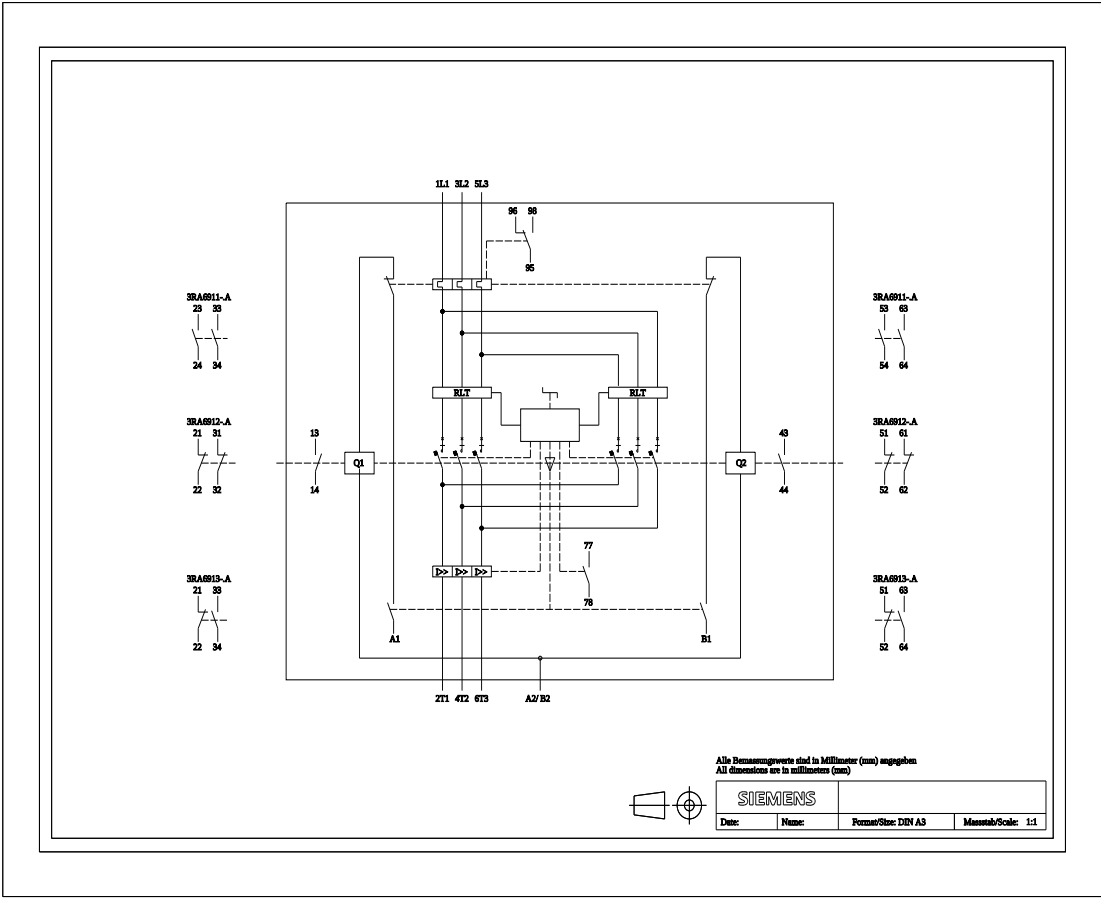
<https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-0CB30/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6250-0CB30&objecttype=14&gridview=view1>







last modified:

3/11/2024