

SIRIUS, COMPACT STARTER, REVERSING STARTER 690 V, 24 V  
 AC/DC, 50 ... 60 HZ, 0.1 ... 0.4 A, IP20, MAIN CIRCUIT  
 CONNECTION: SPRING-LOADED TERMINAL, AUXILIARY  
 CIRCUIT CONNECTION: PLUG-IN, W/O TERMINALS



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

| General technical data   |  |
|--|--|
| <b>Product function</b>  |  |
| <ul style="list-style-type: none"> <li>Control circuit interface to parallel wiring</li> </ul>   | Yes  |
| <b>Product extension</b>   |  |
| <ul style="list-style-type: none"> <li>Auxiliary switch</li> </ul>   | Yes  |
| <b>Insulation voltage</b>  |  |
| <ul style="list-style-type: none"> <li>rated value</li> </ul>  | 690 V  |
| <b>Degree of pollution</b>   | 3  |
| <b>Surge voltage resistance rated value</b>  | 6 000 V  |
| <b>maximum permissible voltage for safe isolation</b>  |  |
| <ul style="list-style-type: none"> <li>between auxiliary and auxiliary circuit</li> <li>between control and auxiliary circuit</li> <li>between main and auxiliary circuit</li> </ul> | 250 V<br>300 V<br>400 V  |
| <b>Protection class IP</b>   | IP20   |
| <b>Vibration resistance</b>  | f= 4 ... 5.8 Hz, d= 15 mm; f= 5.8 ... 500 Hz, a= 20 m/s <sup>2</sup> ; 10 cycles |
| <b>Mechanical service life (switching cycles)</b>  |  |

|  |   |
|--|---|
| • of the main contacts typical                                       | 10 000 000                                      |
| • of auxiliary contacts typical                                      | 10 000 000                                      |
| • of the signaling contacts typical                                  | 10 000 000                                      |
| <b>Electrical endurance (switching cycles) of auxiliary contacts</b> |   |
| • at DC-13 at 6 A at 24 V typical                                    | 30 000  |
| • at AC-15 at 6 A at 230 V typical                                   | 200 000   |
| <b>Type of assignment</b>  | continuous operation according to IEC 60947-6-2 |
| <b>Equipment marking</b>   |   |
| • acc. to DIN EN 61346-2   | Q   |
| • acc. to DIN EN 81346-2   | Q   |

|                            |                |
|----------------------------|----------------|
| <b>Ambient conditions</b>  |                |
| <b>Ambient temperature</b> |                |
| • during operation         | -20 ... +60 °C |
| • during storage           | -55 ... +80 °C |
| • during transport         | -55 ... +80 °C |

|   |                      |
|---|----------------------|
| <b>Main circuit</b>   |                      |
| <b>Number of poles for main current circuit</b>                                   | 3                    |
| <b>Adjustable pick-up value current of the current-dependent overload release</b> | 0.1 ... 0.4 A        |
| <b>Formula for making capacity limit current</b>                                  | 120 x I <sub>e</sub> |
| <b>Formula for interruption capacity limit current</b>                            | 100 x I <sub>e</sub> |
| <b>Mechanical power output for 4-pole AC motor</b>                                |                      |
| • at 400 V rated value  | 0.09 kW              |
| • at 500 V rated value  | 0.12 kW              |
| • at 690 V rated value  | 0.18 kW              |
| <b>Operating voltage</b>  |                      |
| • at AC-3 rated value maximum   | 690 V                |
| <b>Operating current</b>  |                      |
| • at AC at 400 V rated value  | 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               |
| <b>No-load switching frequency</b>  | 3 600 1/h            |
| <b>Operating frequency</b>  |                      |
| • 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              |

|                                       |       |
|---------------------------------------|-------|
| <b>Control circuit/ Control</b>       |       |
| <b>Type of voltage</b>                | AC/DC |
| <b>Control supply voltage 1 at AC</b> |       |

|  |                |
|--|----------------|
| <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> <li>• at 60 Hz rated value</li> </ul> | 24 V<br>24 V   |
| <b>Control supply voltage 1</b>  |                |
| <ul style="list-style-type: none"> <li>• at DC rated value</li> </ul>                                    | 24 V           |
| <b>Holding power</b>   |                |
| <ul style="list-style-type: none"> <li>• at AC maximum</li> <li>• at DC maximum</li> </ul>               | 2.8 W<br>2.9 W |

| Auxiliary circuit  |        |
|--|--------|
| <b>Number of NC contacts</b>   |        |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>   | 0      |
| <b>Number of NO contacts</b>   |        |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>• of instantaneous short-circuit trip unit for signaling contact</li> </ul> | 2<br>1 |
| <b>Number of CO contacts</b>   |        |
| <ul style="list-style-type: none"> <li>• of the current-dependent overload release for signaling contact</li> </ul>                                  | 1      |
| <b>Operating current of auxiliary contacts at AC-12 maximum</b>  | 10 A   |
| <b>Operating current of auxiliary contacts at DC-13</b>  |        |
| <ul style="list-style-type: none"> <li>• at 250 V</li> </ul>   | 0.27 A |

| Protective and monitoring functions  |                            |
|--|----------------------------|
| <b>Trip class</b>  | CLASS 10 and 20 adjustable |
| <b>Off-delay time</b>  | 50 ms                      |
| <b>Operational short-circuit current breaking capacity (Ics)</b>   |                            |
| <ul style="list-style-type: none"> <li>• at 400 V</li> <li>• at 500 V rated value</li> <li>• at 690 V rated value</li> </ul> | 53 kA<br>3 kA<br>3 kA      |

| UL/CSA ratings   |   |
|--|---|
| <b>Full-load current (FLA) for three-phase AC motor</b>  |   |
| <ul style="list-style-type: none"> <li>• at 480 V rated value</li> <li>• at 600 V rated value</li> </ul> | 0.4 A<br>0.4 A  |
| <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 |

| Short-circuit protection  |                                   |
|---|-----------------------------------|
| <b>Product function Short circuit protection</b>  | Yes                               |
| <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> </ul> | fuse gL/gG: 10 A<br>6A gL/gG/400V |

- for short-circuit protection of the signaling switch of the overload release required

4A gL/gG/400V

### Installation/ mounting/ dimensions

|   |  |
|---|--|
| <b>Mounting position</b>  | any  |
| <ul style="list-style-type: none"> <li>• recommended</li> </ul> | vertical, on horizontal standard mounting rail |
| <b>Mounting type</b>  | screw and snap-on mounting                     |
| <b>Height</b>   | 191 mm   |
| <b>Width</b>  | 90 mm  |
| <b>Depth</b>  | 165 mm   |

### Connections/Terminals

|   |  |
|---|--|
| <b>Product function</b>   |  |
| <ul style="list-style-type: none"> <li>• removable terminal for main circuit</li> </ul>   | Yes  |
| <ul style="list-style-type: none"> <li>• removable terminal for auxiliary and control circuit</li> </ul>  | Yes  |
| <b>Type of electrical connection</b>  |  |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>  | spring-loaded terminals                                |
| <ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>   | plug-in without terminals                              |
| <b>Type of connectable conductor cross-sections</b>   |  |
| <ul style="list-style-type: none"> <li>• for main contacts           <ul style="list-style-type: none"> <li>— solid</li> </ul> </li> </ul>          | 2x (1.5 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— finely stranded with core end processing</li> </ul> </li> </ul>    | 2x (1.5 ... 6 mm <sup>2</sup> )                        |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— finely stranded without core end processing</li> </ul> </li> </ul> | 2x (1.5 ... 6 mm <sup>2</sup> )                        |
| <ul style="list-style-type: none"> <li>• at AWG conductors for main contacts</li> </ul>   | 2x (16 ... 10), 1x 8                                   |
| <b>Type of connectable conductor cross-sections</b>   |  |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts           <ul style="list-style-type: none"> <li>— solid</li> </ul> </li> </ul>     | 2x (0.25 ... 1.5 mm <sup>2</sup> )                     |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— finely stranded with core end processing</li> </ul> </li> </ul>    | 2x (0.25 ... 1.5 mm <sup>2</sup> )                     |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— finely stranded without core end processing</li> </ul> </li> </ul> | 2x (0.25 ... 1.5 mm <sup>2</sup> )                     |
| <ul style="list-style-type: none"> <li>• at AWG conductors for auxiliary contacts</li> </ul>  | 2x (24 ... 16)   |

### Safety related data

|  |           |
|--|-----------|
| <b>B10 value</b>   |           |
| <ul style="list-style-type: none"> <li>• with high demand rate acc. to SN 31920</li> </ul> | 3 000 000 |
| <b>Proportion of dangerous failures</b>  |           |
| <ul style="list-style-type: none"> <li>• with low demand rate acc. to SN 31920</li> </ul>  | 40 %      |
| <ul style="list-style-type: none"> <li>• with high demand rate acc. to SN 31920</li> </ul> | 50 %      |
| <b>Failure rate [FIT]</b>  |           |
| <ul style="list-style-type: none"> <li>• with low demand rate acc. to SN 31920</li> </ul>  | 100 FIT   |
| <b>T1 value for proof test interval or service life acc. to IEC 61508</b>                  | 20 y      |

### Communication/ Protocol

|                                    |    |
|------------------------------------|----|
| Product function Bus communication | No |
| Protocol is supported              |    |
| • IO-Link protocol                 | No |

### Electromagnetic compatibility

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



|                           |                   |                   |
|---------------------------|-------------------|-------------------|
| 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,...)**

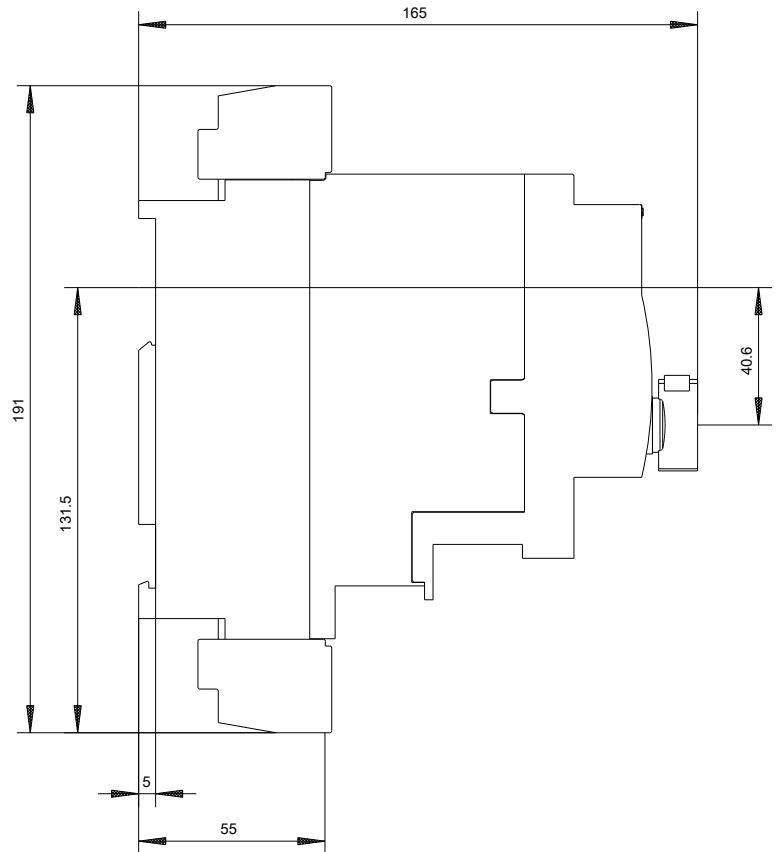
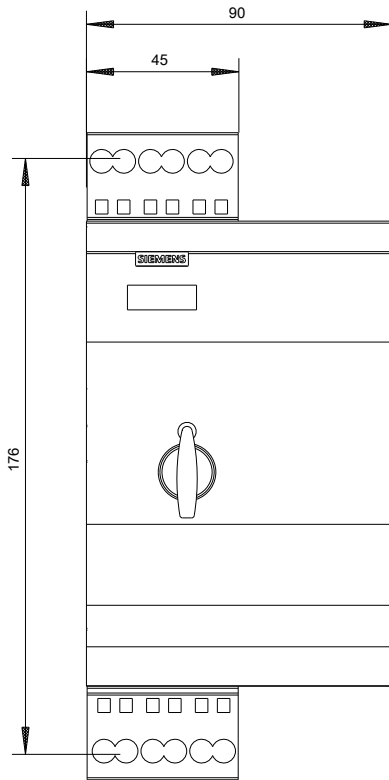
<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA6250-2AB34>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6250-2AB34>







\f@Arial Unicode MS\b0|i0|c0|p34;3RA61XX-XXXXX\_01\_4\_IEC  
 \f@Arial Unicode MS\b0|i0|c0|p34;Siemens  
 \f@Arial Unicode MS\b0|i0|c0|p34;Format / Size: Hybrid Quer

last modified:

07/14/2017