



SIRIUS MOTOR STARTER M200D TECHNOLOGIEMODUL  
 DIRECT ON-LINE STARTER ELECTRONIC SWITCHING 3  
 400V AC/0,9KW;  
 0,15A...2,00A;  
 ELECTRONIC OVERLOAD PROTECTION;  
 THERMISTOR: THERMOCLICK / PTC WITHOUT BRAKE  
 CONTACT 4DI / 2DO HAN Q4/2 - HAN Q8/0 WITH  
 OPERATOR TERMINAL AND KEY-OPERATED SWITCH  
 USING A COMMUNICATION MODULE 3RK1305\* USABLE  
 WITH PROFIBUS OR PROFINET

**General technical data:**

|   |  |                                    |
|---|--|------------------------------------|
| <b>product brand name</b>                                   |  | SIRIUS                             |
| <b>Product designation</b>                                  |  | motor starter module M200D         |
| <b>Design of the product</b>                                |  | direct starter                     |
| <b>Product function</b>                                     |  |                                    |
| • direct start  |  | Yes                                |
| • reverse starting  |  | No                                 |
| • short circuit protection                                  |  | Yes                                |
| • bus-communication   |  | Yes                                |
| <b>Design of the switching contact</b>                      |  | solid-state / thyristor / 2 phases |
| <b>Product component / outlet for enine brake</b>           |  | No                                 |
| <b>Trip class</b>   |  | CLASS 5, 10, 15, 20                |
| <b>Type of assignment</b>                                   |  | 1                                  |
| <b>Product equipment</b>                                    |  |                                    |
| • brake control with 230 V AC                               |  | No                                 |
| • brake control with 400 V AC                               |  | No                                 |
| • brake control with 24 V DC                                |  | No                                 |
| • brake control with 180 V DC                               |  | No                                 |
| • brake control with 500 V DC                               |  | No                                 |
| <b>Product extension / braking module for brake control</b> |  | No                                 |

|   |    |              |
|---|----|--------------|
| <b>Impulse voltage resistance / rated value</b>           | V  | 6,000        |
| <b>Start-up delay time</b>                                | ms | 25           |
| <b>Switch-off delay time</b>                              | ms | 35           |
| <b>Insulation voltage / rated value</b>                   | V  | 500          |
| <b>Active power loss / typical</b>                        | W  | 30           |
| <b>Maximum permissible voltage for safe disconnection</b> |    |              |
| • between main circuit and auxiliary circuit              | V  | 400          |
| • between control and auxiliary circuit                   | V  | 24           |
| <b>Reference code</b>                                     |    |              |
| • according to DIN EN 61346-2                             |    | Q            |
| <b>Mounting type</b>                                      |    | screw fixing |
| <b>Width</b>  | mm | 294          |
| <b>Height</b>   | mm | 215          |
| <b>Depth</b>  | mm | 148          |

#### Main circuit:

|  |    |                       |
|--|----|-----------------------|
| <b>Operating voltage</b>   |    |                       |
| • rated value  | V  | 360 ... 440           |
| <b>Adjustable response current</b>                                       |    |                       |
| • of the current-dependent overload release                              | A  | 0.15 ... 2            |
| <b>Operating current / at AC-3 / at 400 V</b>                            |    |                       |
| • rated value  | A  | 2                     |
| <b>Service power / for three-phase servomotors / at 400 V / at 50 Hz</b> |    |                       |
| • minimum  | kW | 0.06 ... 0.75         |
| <b>Service power / at AC-3</b>   |    |                       |
| • at 400 V / rated value   | kW | 0.75                  |
| • at 500 V / rated value   | W  | 750                   |
| <b>Number of poles / for main current circuit</b>                        |    | 3                     |
| <b>Design of the short-circuit protection</b>                            |    | circuit-breakers      |
| <b>Breaking capacity limit short-circuit current (I<sub>cu</sub>)</b>    |    |                       |
| • at 400 V / rated value   | A  | 50,000                |
| • at 500 V / rated value   | A  | 20,000                |
| <b>Type of the motor protection</b>                                      |    | full motor protection |








#### Control circuit:

|  |   |      |
|--|---|------|
| <b>Voltage type / of control feed voltage</b>                                  |   | DC   |
| <b>Control supply voltage / 1 / for DC / rated value / permissible minimum</b> | V | 20.4 |
| <b>Control supply voltage / 1 / for DC / rated value / permissible maximum</b> | V | 28.8 |

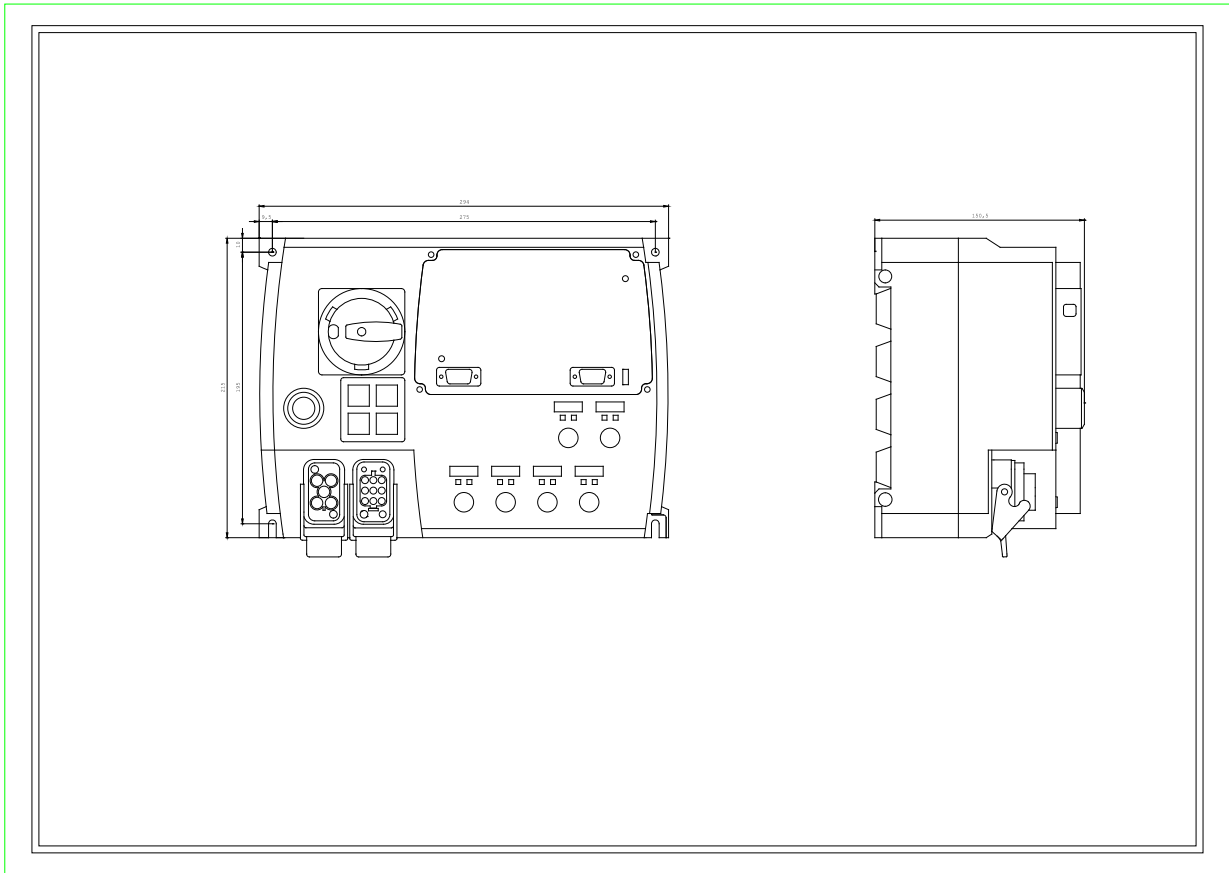
|  |    |                            |
|--|----|----------------------------|
| <b>Design of the electrical connection / for auxiliary and control current circuit</b> |    | connector                  |
| <b>Supply voltage:</b>   |    |                            |
| <b>Type of / supply voltage</b>  |    | DC                         |
| <b>Ambient conditions:</b>   |    |                            |
| <b>Protection class IP</b>   |    | IP65                       |
| <b>Ambient temperature</b>   |    |                            |
| • during storage   | °C | -40 ... +70                |
| • during operating   | °C | -25 ... +55                |
| • during transport   | °C | -40 ... +70                |
| <b>Relative humidity</b>   |    |                            |
| • during operating phase   | %  | 10 ... 95                  |
| <b>Resistance against vibration</b>  |    | 7 mm / 2g                  |
| <b>Resistance against shock</b>  |    | 12g / 11 ms                |
| <b>Degree of pollution</b>   |    | 3                          |
| <b>Installation altitude / at a height over sea level / maximum</b>                    | m  | 2,000                      |
| <b>mounting position</b>   |    | vertical, horizontal, flat |
| <b>mounting position / recommended</b>   |    | horizontal                 |
| <b>Communication:</b>  |    |                            |
| <b>Design of the interface</b>   |    |                            |
| • AS interface protocol  |    | No                         |
| <b>Protocol / is supported</b>   |    |                            |
| • AS interface protocol  |    | No                         |
| <b>Design of the interface</b>   |    |                            |
| • PROFIBUS DP protocol   |    | No                         |
| <b>Protocol / is supported</b>   |    |                            |
| • PROFIBUS DP protocol   |    | No                         |
| <b>Product function</b>  |    |                            |
| • control circuit interface with IO link   |    | No                         |
| • control circuit interface to parallel wiring   |    | No                         |
| <b>Design of the interface</b>   |    |                            |
| • PROFINET protocol  |    | No                         |
| <b>Protocol / is supported</b>   |    |                            |
| • PROFINET protocol  |    | No                         |
| <b>Connections:</b>  |    |                            |
| <b>Number of digital inputs</b>  |    | 4                          |
| <b>Number of digital outputs</b>   |    | 2                          |
| <b>Number of sockets</b>   |    |                            |

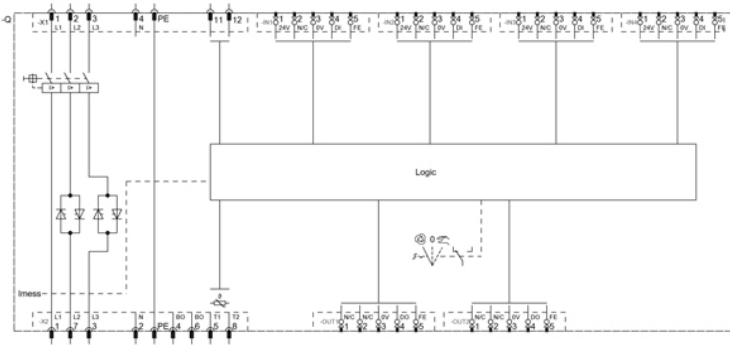
|   |            |
|---|------------|
| • for digital input signals                 | 4          |
| • for digital output signals                | 2          |
| <b>Product function</b>                     |            |
| • digital inputs parameterizable            | Yes        |
| • digital outputs parameterizable           | Yes        |
| <b>Design of the electrical connection</b>  |            |
| • 1 / for digital input signals             | M12 socket |
| • 2 / for digital input signals             | M12 socket |
| • 3 / for digital input signals             | M12 socket |
| • 4 / for digital input signals             | M12 socket |
| • 1 / for digital output signals            | M12 socket |
| <b>Product function / on-site operation</b> | Yes        |

| EMC:   |   |
|--|---|
| <b>EMC immunity to interference / according to IEC 60947-1</b>                                   | corresponds to degree of severity 3, ambience A (industrial sector) |
| <b>Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4</b>                     | 2 kV network connection / 1 kV control connection                   |
| <b>Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5</b>     | 2 kV  |
| <b>Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5</b> | 1 kV  |
| <b>EMC emitted interference / according to IEC 60947-1</b>                                       | CISPR11, ambience A (group 2)                                       |
| <b>Verification of suitability</b>   | CE  |
| <b>Protection against electrical shock</b>   | finger-safe   |

| Certificates/approvals:   |   |
|---|---|
| <b>General Product Approval</b>   | <b>Declaration of Conformity</b>  |
|  CCC<br> CSA<br> EAC<br> GOST<br> UL<br> EG-Konf. |   |
| <b>Test Certificates</b>  | <b>other</b>  |
| <a href="#">Type Test Certificates/Test Report</a>  |  PROFIT<br>Profibus<br><a href="#">Environmental Confirmations</a> |

| Further information:  |
|---|
| <b>Information- and Downloadcenter (Catalogs, Brochures,...)</b><br><a href="http://www.siemens.com/industrial-controls/catalogs">http://www.siemens.com/industrial-controls/catalogs</a> |
| <b>Industry Mall (Online ordering system)</b><br><a href="http://www.siemens.com/industrial-controls/mall">http://www.siemens.com/industrial-controls/mall</a>                            |
| <b>CAX-Online-Generator</b><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>  |





last change:

Jun 16, 2014