



SIRIUS motor starter M200D AS-i communication: AS-Interface reversing starter standard electronic switching AC-3, 5.5 kW / 400 V 1.5 A...12.00 A electronic overload protection thermistor: thermoclick / PTC with brake contact 180 V DC 4 DI / 1 DO AS-i Han Q4/2 - Han Q8/0

|  |   |
|--|---|
| <b>product brand name</b>                                    | SIRIUS  |
| <b>product designation</b>                                   | Motor starters  |
| <b>design of the product</b>                                 | reversing starter   |
| <b>product type designation</b>                              | M200D   |
| <b>product function</b>                                      |   |
| • on-site operation  | No  |
| • control circuit interface to parallel wiring               | No  |
| <b>insulation voltage rated value</b>                        | 500 V   |
| <b>degree of pollution</b>                                   | 3   |
| <b>surge voltage resistance rated value</b>                  | 6 000 V   |
| <b>maximum permissible voltage for protective separation</b> |   |
| • between main and auxiliary circuit                         | 400 V   |
| • between control and auxiliary circuit                      | 24 V  |
| <b>shock resistance</b>                                      | 12 g / 11 ms  |
| <b>vibration resistance</b>                                  | 7 mm / 2 g  |
| <b>type of coordination</b>                                  | 1   |
| <b>Substance Prohibitance (day/month/year)</b>               | 07/01/2006  |
| <b>SVHC substance name</b>                                   | Lead CAS-No. 7439-92-1<br>Lead monoxide (lead oxide) CAS-No. 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5<br>Melamine CAS-No. 108-78-1<br>6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1 |
| <b>Net Weight</b>  | 4.2 kg  |
| <b>product function</b>                                      |   |
| • direct start   | No  |
| • reverse starting   | Yes   |
| <b>product component motor brake output</b>                  | Yes   |
| <b>product feature</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                                | Yes   |
| • brake control with 500 V DC                                | No  |
| <b>product extension braking module for brake control</b>    | No  |
| <b>product function short circuit protection</b>             | Yes   |
| <b>design of short-circuit protection</b>                    | circuit-breakers  |
| <b>maximum short-circuit current breaking capacity (Icu)</b> |   |
| • at 400 V rated value                                       | 50 000 A  |
| • at 500 V rated value                                       | 20 000 A  |
| <b>EMC emitted interference according to IEC 60947-1</b>     | CISPR11, ambience A (group 2)   |

|   |   |
|---|---|
| EMC immunity according to IEC 60947-1   | corresponds to degree of severity 3, ambience A (industrial sector) |
| <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> </ul>   | 2 kV network connection / 1 kV control connection<br>2 kV<br>1 kV   |
| <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>   | 50 %<br>75 %  |
| <b>B10 value with high demand rate according to SN 31920</b>  | 1 000 000   |
| <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>touch protection against electrical shock</b>  | finger-safe   |
| <b>Main circuit</b>   |   |
| <b>number of poles for main current circuit</b>   | 3   |
| <b>design of the switching contact</b>  | solid-state / thyristor / 2 phases                                  |
| <b>adjustable current response value current of the current-dependent overload release</b>  | 1.5 ... 12 A  |
| <b>type of the motor protection</b>   | full motor protection   |
| operating voltage rated value   | 200 ... 440 V   |
| <b>operational current</b>  |   |
| <ul style="list-style-type: none"> <li>• at AC at 400 V rated value</li> <li>• at AC-3 at 400 V rated value</li> </ul>  | 12 A<br>12 A  |
| <b>operating power</b>  |   |
| <ul style="list-style-type: none"> <li>• at AC-3               <ul style="list-style-type: none"> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> </ul> </li> <li>• at AC-3e               <ul style="list-style-type: none"> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> </ul> </li> </ul> | 5.5 kW<br>5 500 W<br>6 kW<br>5.5 kW                                 |
| <b>product function</b>   |   |
| <ul style="list-style-type: none"> <li>• digital inputs parameterizable</li> <li>• digital outputs parameterizable</li> </ul>   | Yes<br>Yes  |
| <b>number of digital inputs</b>   | 4   |
| <b>number of sockets</b>  |   |
| <ul style="list-style-type: none"> <li>• for digital output signals</li> <li>• for digital input signals</li> </ul>   | 1<br>4  |
| <b>number of digital outputs</b>  | 1   |
| <b>Supply voltage</b>   |   |
| <b>type of voltage of the supply voltage</b>  | DC  |
| <b>supply voltage 1 at DC</b>   | 24 V  |
| <b>supply voltage 1 at DC rated value</b>   | 30 V  |
| <ul style="list-style-type: none"> <li>• minimum permissible</li> <li>• maximum permissible</li> </ul>  | 26.5 V<br>31.6 V  |
| <b>Control circuit/ Control</b>   |   |
| <b>type of voltage of the control supply voltage</b>  | DC  |
| <b>control supply voltage at DC rated value</b>   | 20.4 ... 28.8 V   |
| <b>control supply voltage 1 at DC rated value</b>   | 24 V  |
| <b>control supply voltage 1 at DC rated value</b>   | 20.4 ... 28.8 V   |
| <b>control supply voltage 1 at DC</b>   | 20.4 ... 28.8 V   |
| <b>control current at DC</b>  |   |
| <ul style="list-style-type: none"> <li>• in standby mode of operation</li> <li>• during operation</li> </ul>  | 100 mA<br>0.6 A   |
| <b>power loss [W] in auxiliary and control circuit</b>  |   |
| <ul style="list-style-type: none"> <li>• in switching state OFF with bypass circuit</li> </ul>  | 1.9872 W  |

|   |                                       |
|---|---------------------------------------|
| <ul style="list-style-type: none"> <li>in switching state ON with bypass circuit</li> </ul>     | 8.2656 W                              |
| <b>Response times</b>   |                                       |
| <b>ON-delay time</b>  | 25 ms                                 |
| <b>OFF-delay time</b>   | 35 ms                                 |
| <b>mounting position</b>  | vertical, horizontal, flat            |
| <b>mounting position recommended</b>  | horizontal                            |
| <b>fastening method</b>   | screw fixing                          |
| <b>height</b>   | 215 mm                                |
| <b>width</b>  | 294 mm                                |
| <b>depth</b>  | 159 mm                                |
| <b>Ambient conditions</b>   |                                       |
| installation altitude at height above sea level maximum   | 2 000 m                               |
| <b>ambient temperature</b>  |                                       |
| <ul style="list-style-type: none"> <li>during operation</li> </ul>                              | -25 ... +55 °C                        |
| <ul style="list-style-type: none"> <li>during storage</li> </ul>                                | -40 ... +70 °C                        |
| <ul style="list-style-type: none"> <li>during transport</li> </ul>                              | -40 ... +70 °C                        |
| relative humidity during operation  | 10 ... 95 %                           |
| <b>protocol is supported</b>  |                                       |
| <ul style="list-style-type: none"> <li>PROFIBUS DP protocol</li> </ul>                          | No                                    |
| <ul style="list-style-type: none"> <li>PROFINET protocol</li> </ul>                             | No                                    |
| <b>design of the interface</b>  |                                       |
| <ul style="list-style-type: none"> <li>AS-Interface protocol</li> </ul>                         | Yes                                   |
| <ul style="list-style-type: none"> <li>PROFINET protocol</li> </ul>                             | No                                    |
| <ul style="list-style-type: none"> <li>PROFIBUS DP protocol</li> </ul>                          | No                                    |
| <b>product function bus communication</b>   | Yes                                   |
| protocol is supported AS-Interface protocol   | Yes                                   |
| product function control circuit interface with IO link   | No                                    |
| type of electrical connection of the communication interface                                    | M12 plug                              |
| <b>type of electrical connection</b>  |                                       |
| <ul style="list-style-type: none"> <li>for main current circuit</li> </ul>                      | plug according to ISO 23570, HAN Q4/2 |
| <ul style="list-style-type: none"> <li>for auxiliary and control circuit</li> </ul>             | connector                             |
| <b>type of electrical connection</b>  |                                       |
| <ul style="list-style-type: none"> <li>1 for digital input signals</li> </ul>                   | M12 socket                            |
| <ul style="list-style-type: none"> <li>1 for digital output signals</li> </ul>                  | M12 socket                            |
| <ul style="list-style-type: none"> <li>2 for digital input signals</li> </ul>                   | M12 socket                            |
| <ul style="list-style-type: none"> <li>3 for digital input signals</li> </ul>                   | M12 socket                            |
| <ul style="list-style-type: none"> <li>4 for digital input signals</li> </ul>                   | M12 socket                            |
| <b>type of electrical connection</b>  |                                       |
| <ul style="list-style-type: none"> <li>at the manufacturer-specific device interface</li> </ul> | optical interface                     |
| <ul style="list-style-type: none"> <li>for device addressing</li> </ul>                         | M12 plug                              |
| <ul style="list-style-type: none"> <li>for supply voltage line-side</li> </ul>                  | M12 plug                              |
| full-load current (FLA) for 3-phase AC motor at 480 V rated value                               | 11 A                                  |
| <b>yielded mechanical performance [hp]</b>  |                                       |
| <ul style="list-style-type: none"> <li>for 3-phase AC motor</li> </ul>                          |                                       |
| <ul style="list-style-type: none"> <li>— at 220/230 V rated value</li> </ul>                    | 3 hp                                  |
| <ul style="list-style-type: none"> <li>— at 460/480 V rated value</li> </ul>                    | 7.5 hp                                |
| operating voltage at AC at 60 Hz according to CSA and UL rated value                            | 480 V                                 |

|                                 |     |
|---------------------------------|-----|
| <b>Approvals Certificates</b>   |     |
| <b>General Product Approval</b> | EMV |



|                          |              |                    |                                 |
|--------------------------|--------------|--------------------|---------------------------------|
| <b>Test Certificates</b> | <b>other</b> | <b>Environment</b> | <b>Industrial Communication</b> |
|--------------------------|--------------|--------------------|---------------------------------|



**Further information**

**Information on the packaging**

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

**Information for data generation and storage**

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

**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=3RK1325-6LS71-1AA5>

**Cax online generator**

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1325-6LS71-1AA5>

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

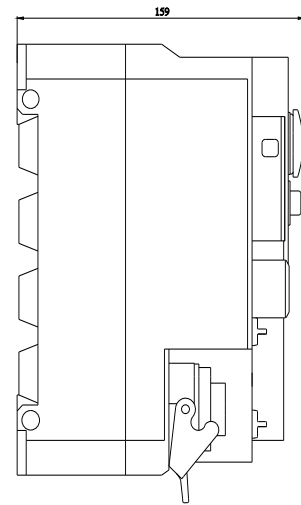
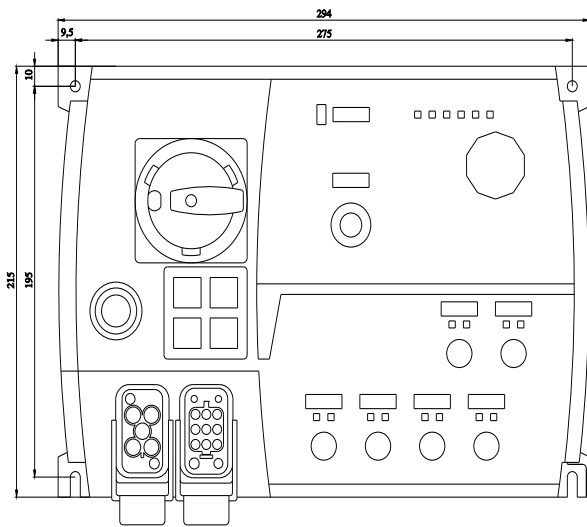
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1325-6LS71-1AA5>

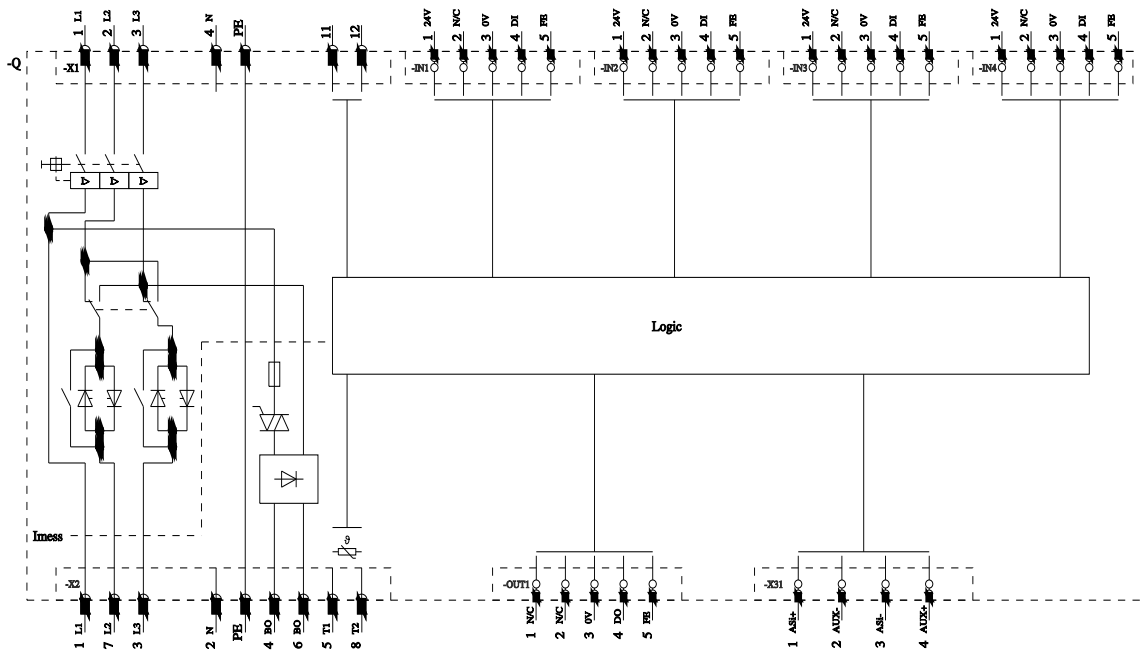
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1325-6LS71-1AA5&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1325-6LS71-1AA5&lang=en)

**Characteristic curves**

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)





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