



SIRIUS motor starter M200D AS-i communication: AS-Interface direct-on-line starter standard electronic switching AC-3, 0.75 kW/400 V 0.15 A...2.00 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>                                 | direct 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>                                      | 12g / 11 ms   |
| <b>vibration resistance</b>                                  | 7 mm / 2g   |
| <b>type of coordination</b>                                  | 1   |
| <b>Substance Prohibitance (Date)</b>                         | 07/01/2006  |
| <b>SVHC substance name</b>                                   | Lead - 7439-92-1<br>Lead monoxide (lead oxide) - 1317-36-8<br>2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7<br>6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1 |
| <b>Weight</b>  | 3.889 kg  |
| <b>product function</b>                                      |   |
| • direct start   | Yes   |
| • reverse starting   | No  |
| <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  |
| EMC emitted interference according to IEC 60947-1            | 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>                                |   |

- due to burst according to IEC 61000-4-4
- due to conductor-earth surge according to IEC 61000-4-5
- due to conductor-conductor surge according to IEC 61000-4-5

2 kV network connection / 1 kV control connection  
2 kV  
1 kV

#### Safety related data

|   |              |
|---|--------------|
| <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  |

#### Main circuit

|   |                                     |
|---|-------------------------------------|
| <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>  | 0.15 ... 2 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>  | 2 A<br>2 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> | 0.75 kW<br>750 W<br>1 kW<br>0.75 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                                   |

#### Supply voltage

|  |                  |
|--|------------------|
| <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 |

#### Control circuit/ Control

|   |                      |
|---|----------------------|
| <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>600 mA     |
| <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> <li>• in switching state ON with bypass circuit</li> </ul> | 1.9872 W<br>2.2176 W |

#### Response times

|                       |       |
|-----------------------|-------|
| <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                     |

#### Ambient conditions

|  |                                       |
|--|---------------------------------------|
| installation altitude at height above sea level maximum              | 2 000 m                               |
| <b>ambient temperature</b>   |                                       |
| • during operation   | -25 ... +55 °C                        |
| • during storage   | -40 ... +70 °C                        |
| • during transport   | -40 ... +70 °C                        |
| relative humidity during operation                                   | 10 ... 95 %                           |
| <b>protocol is supported</b>   |                                       |
| • PROFIBUS DP protocol   | No                                    |
| • PROFINET protocol  | No                                    |
| <b>design of the interface</b>                                       |                                       |
| • AS-Interface protocol  | Yes                                   |
| • PROFINET protocol  | No                                    |
| • PROFIBUS DP protocol   | 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>                                 |                                       |
| • for main current circuit   | plug according to ISO 23570, HAN Q4/2 |
| • for auxiliary and control circuit                                  | connector                             |
| <b>type of electrical connection</b>                                 |                                       |
| • 1 for digital input signals  | M12 socket                            |
| • 1 for digital output signals                                       | M12 socket                            |
| • 2 for digital input signals  | M12 socket                            |
| • 3 for digital input signals  | M12 socket                            |
| • 4 for digital input signals  | M12 socket                            |
| <b>type of electrical connection</b>                                 |                                       |
| • at the manufacturer-specific device interface                      | optical interface                     |
| • for device addressing  | M12 plug                              |
| • for supply voltage line-side                                       | M12 plug                              |
| full-load current (FLA) for 3-phase AC motor at 480 V rated value    | 1.6 A                                 |
| <b>yielded mechanical performance [hp]</b>                           |                                       |
| • for 3-phase AC motor   |                                       |
| — at 460/480 V rated value   | 0.7 hp                                |
| operating voltage at AC at 60 Hz according to CSA and UL rated value | 480 V                                 |

#### Approvals Certificates

|                          |     |
|--------------------------|-----|
| General Product Approval | EMV |
|--------------------------|-----|



|                   |       |             |                          |
|-------------------|-------|-------------|--------------------------|
| Test Certificates | other | Environment | Industrial Communication |
|-------------------|-------|-------------|--------------------------|

[Type Test Certificates/Test Report](#)



[Confirmation](#)

[Environmental Confirmations](#)



#### 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=3RK1325-6KS71-0AA5>

Cax online generator

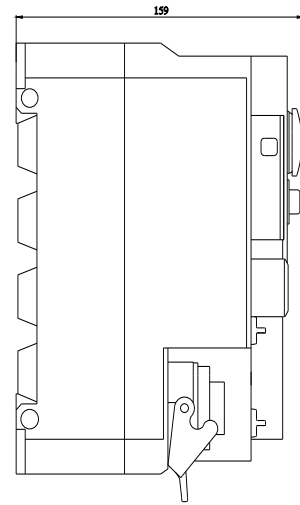
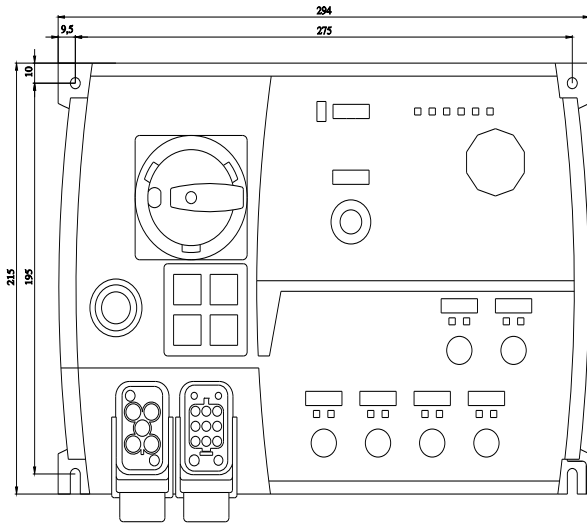
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1325-6KS71-0AA5>

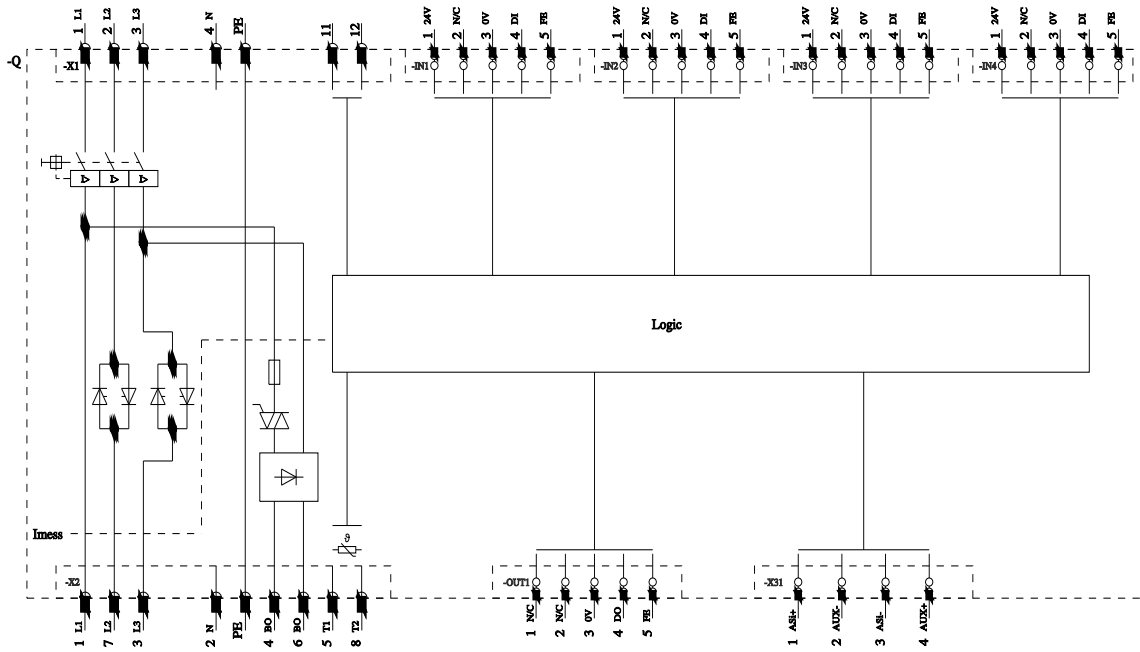
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1325-6KS71-0AA5>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1325-6KS71-0AA5&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1325-6KS71-0AA5&lang=en)





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