



SIRIUS MOTOR STARTER M200D AS-I  
COMMUNICATION: AS-INTERFACE REVERSING  
STARTER STANDARD ELECTRONIC SWITCHING 3 400V  
AC/5,5KW;  
1,5A...12,00A;  
ELECTRONIC OVERLOAD PROTECTION;  
THERMISTOR: THERMOCLICK / PTC WITH BRAKE  
CONTACT 180V DC 4DI / 1DO AS-I HAN Q4/2 - HAN Q8/0

| General technical data:                              |  |                                    |
|------------------------------------------------------|--|------------------------------------|
| product brand name                                   |  | SIRIUS                             |
| Product designation                                  |  | motor starter M200D, AS-i Standard |
| Design of the product                                |  | reversing starter                  |
| Product function                                     |  |                                    |
| • direct start                                       |  | No                                 |
| • reverse starting                                   |  | Yes                                |
| • short circuit protection                           |  | Yes                                |
| • bus-communication                                  |  | Yes                                |
| Design of the switching contact                      |  | solid-state / thyristor / 2 phases |
| Product component / outlet for enine brake           |  | Yes                                |
| Trip class                                           |  | CLASS 5, 10, 15, 20                |
| Type of assignment                                   |  | 1                                  |
| Product equipment                                    |  |                                    |
| • 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                                 |
| Product extension / braking module for brake control |  | 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 | 159          |

|                                                                          |    |                       |
|--------------------------------------------------------------------------|----|-----------------------|
| <b>Main circuit:</b>                                                     |    |                       |
| <b>Operating voltage</b>                                                 |    |                       |
| • rated value                                                            | V  | 360 ... 440           |
| <b>Adjustable response current</b>                                       |    |                       |
| • of the current-dependent overload release                              | A  | 1.5 ... 12            |
| <b>Operating current / at AC-3 / at 400 V</b>                            |    |                       |
| • rated value                                                            | A  | 12                    |
| <b>Service power / for three-phase servomotors / at 400 V / at 50 Hz</b> |    |                       |
| • minimum                                                                | kW | 0.55 ... 5.5          |
| <b>Service power / at AC-3</b>                                           |    |                       |
| • at 400 V / rated value                                                 | kW | 5.5                   |
| • at 500 V / rated value                                                 | W  | 5,500                 |
| <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 |

|                                                                                |   |      |
|--------------------------------------------------------------------------------|---|------|
| <b>Control circuit:</b>                                                        |   |      |
| <b>Voltage type / of control feed voltage</b>                                  |   | DC   |
| <b>Control supply voltage / 1 / for DC / rated value</b>                       | V | 24   |
| <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>Supply voltage / 1 / for DC / rated value</b>                       | V | 30       |
| • permissible minimum                                                  | V | 26.5     |
| • permissible maximum                                                  | V | 31.6     |
| <b>Design of the electrical connection / for supply voltage infeed</b> |   | M12 plug |

|                                                                     |    |                            |
|---------------------------------------------------------------------|----|----------------------------|
| <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                        |  | Yes |
| <b>Protocol / is supported</b>                 |  |     |
| • AS interface protocol                        |  | Yes |
| <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>Design of the electrical connection</b>                                                       |  |                                                                     |
| • of the communication interface                                                                 |  | M12 plug                                                            |
| <b>Connections:</b>                                                                              |  |                                                                     |
| <b>Number of digital inputs</b>                                                                  |  | 4                                                                   |
| <b>Number of digital outputs</b>                                                                 |  | 1                                                                   |
| <b>Number of sockets</b>                                                                         |  |                                                                     |
| • for digital input signals                                                                      |  | 4                                                                   |
| • for digital output signals                                                                     |  | 1                                                                   |
| <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>Design of the electrical connection</b>                                                       |  |                                                                     |
| • at the manufacturer-specific device interface                                                  |  | optical interface                                                   |
| • for device addressing                                                                          |  | M12 plug                                                            |
| <b>Product function / on-site operation</b>                                                      |  | No                                                                  |
| <b>EMC:</b>                                                                                      |  |                                                                     |
| <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                                                         |
| <b>Certificates/approvals:</b>                                                                   |  |                                                                     |



CCC



CSA



GOST



UL



EG-Konf.

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other

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ASi

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## Further information:

## Information- and Downloadcenter (Catalogs, Brochures,...)

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

## Industry Mall (Online ordering system)

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

## CAx-Online-Generator

<http://www.siemens.com/cax>

## Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RK1325-6LS71-1AA5/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RK1325-6LS71-1AA5](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1325-6LS71-1AA5)



