



DS1-X FOR ET 200S ELECTROMECHANICS LINE  
 STARTER EXPANDABLE ADJUSTABLE RANGE 1.8...2.5A  
 AC-3,  
 0.9 KW/400V FOR BRAKE CONTROL MODULE

**General technical data:**

|   |                       |
|---|-----------------------|
| <b>product brand name</b>                                   | Sirius                |
| <b>Product designation</b>                                  | motor starter ET 200S |
| <b>Design of the product</b>                                | direct starter        |
| <b>Product function</b>                                     |                       |
| • bus-communication   | Yes                   |
| • direct start  | Yes                   |
| • reverse starting  | No                    |
| • on-site operation   | Yes                   |
| • short circuit protection                                  | Yes                   |
| <b>Design of the switching contact</b>                      | electromechanical     |
| <b>Product component / outlet for engine brake</b>          | Yes                   |
| <b>Trip class</b>   | CLASS 10              |
| <b>Type of assignment</b>                                   | 1                     |
| <b>Product equipment</b>                                    |                       |
| • brake control with 230 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> | Yes                   |

|   |    |                                     |
|---|----|-------------------------------------|
| <b>Impulse voltage resistance / rated value</b>   | kV | 6                                   |
| <b>Insulation voltage / rated value</b>   | V  | 500                                 |
| <b>Active power loss / typical</b>  | W  | 10                                  |
| <b>Maximum permissible voltage for safe disconnection / between main circuit and auxiliary circuit</b>  | V  | 400                                 |
| <b>Reference code</b><br><ul style="list-style-type: none"> <li>• according to DIN EN 61346-2</li> <li>• according to DIN 40719 extended according to IEC 204-2 / according to IEC 750</li> </ul> |    | Q<br>A                              |
| <b>Mounting type</b>  |    | Can be plugged into terminal module |
| <b>Depth</b>  | mm | 120                                 |
| <b>Height</b>   | mm | 265                                 |
| <b>Width</b>  | mm | 45                                  |

#### Main circuit:

|  |    |                    |
|--|----|--------------------|
| <b>Operating voltage</b><br><ul style="list-style-type: none"> <li>• rated value</li> </ul>  | V  | 400 ... 500        |
| <b>Adjustable response current</b><br><ul style="list-style-type: none"> <li>• of the current-dependent overload release</li> </ul>  | A  | 1.8 ... 2.5        |
| <b>Service power</b><br><ul style="list-style-type: none"> <li>• at AC-3 / at 400 V / rated value</li> <li>• for three-phase servomotors / at 400 V / at 50 Hz</li> <li>• minimum</li> </ul> | kW | 0.9<br>0.9 ... 0.9 |
| <b>Breaking capacity limit short-circuit current (I<sub>cu</sub>) / at 400 V / rated value</b>   | kA | 50                 |
| <b>Design of the short-circuit protection</b>  |    | circuit-breakers   |
| <b>Number of poles / for main current circuit</b>  |    | 3                  |
| <b>Type of the motor protection</b>  |    | bimetal            |
| <b>Mechanical operating cycles as operating time / of the main contacts / typical</b>  |    | 100,000            |

#### Control circuit:

|   |   |               |
|---|---|---------------|
| <b>Voltage type / of control feed voltage</b>   |   | DC            |
| <b>Control supply voltage / 1</b><br><ul style="list-style-type: none"> <li>• for DC</li> </ul>               | V | 24 ... 24     |
| <b>Control supply voltage / 1 / for DC</b><br><ul style="list-style-type: none"> <li>• rated value</li> </ul> | V | 20.4 ... 28.8 |

#### Supply voltage:

|   |   |           |
|---|---|-----------|
| <b>Type of / supply voltage</b>   |   | DC        |
| <b>Supply voltage / 1</b><br><ul style="list-style-type: none"> <li>• for DC</li> </ul> | V | 24 ... 24 |

|                                    |   |               |
|------------------------------------|---|---------------|
| <b>Supply voltage / 1 / for DC</b> |   |               |
| • rated value                      | V | 20.4 ... 28.8 |

#### Ambient conditions:

|   |    |   |
|---|----|---|
| <b>Protection class IP</b>  |    | IP20  |
| <b>Ambient temperature</b>  |    |   |
| • during operating  | °C | 0 ... 60  |
| • during storage  | °C | -40 ... +70   |
| • during transport  | °C | -40 ... +70   |
| <b>Relative humidity</b>  |    |   |
| • during operating phase  | %  | 5 ... 95  |
| <b>Resistance against vibration</b>                                 |    | 2g  |
| <b>Resistance against shock</b>                                     |    | 5g / 11 ms  |
| <b>Degree of pollution</b>  |    | 3 at 400 V, 2 at 500 V according to IEC60664 (IEC61131) |
| <b>Installation altitude / at a height over sea level / maximum</b> | m  | 2,000   |
| <b>mounting position</b>  |    | vertical, horizontal                                    |

#### Communication:

|  |  |                   |
|--|--|-------------------|
| <b>Protocol / is supported</b>                     |  |                   |
| • PROFIBUS DP protocol                             |  | Yes               |
| • PROFINET protocol                                |  | Yes               |
| • AS interface protocol                            |  | No                |
| <b>Design of the interface / PROFINET protocol</b> |  | Yes               |
| <b>Design of the electrical connection</b>         |  |                   |
| • of the communication interface                   |  | via backplane bus |
| • for communication transmission                   |  | via backplane bus |

#### Connections:

|   |  |                      |
|---|--|----------------------|
| <b>Number of digital inputs</b>                 |  | 0                    |
| <b>Number of sockets</b>                        |  |                      |
| • for digital input signals                     |  | 0                    |
| • for digital output signals                    |  | 0                    |
| <b>Product function</b>                         |  |                      |
| • digital inputs parameterizable                |  | No                   |
| • digital outputs parameterizable               |  | No                   |
| <b>Design of the electrical connection</b>      |  |                      |
| • 1 / for digital input signals                 |  | using control module |
| • 2 / for digital input signals                 |  | using control module |
| • at the manufacturer-specific device interface |  | plug                 |
| • for main energy infeed                        |  | screw-type terminals |

- for motor outgoing line
- for main energy transmission
- for supply voltage infeed
- for supply voltage transmission
- for main current circuit

screw-type terminals  
via energy bus  
via backplane bus  
via backplane bus  
screw-type terminals

#### EMC:

**Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4**

2 kV on voltage supply, inputs and outputs

**Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5**

2 kV (U > 24 V DC)

**Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5**

1 kV (U > 24 V DC)

**Field-bound parasitic coupling / according to IEC 61000-4-3**

80 MHz ... 1 GHz 10 V/m, 1.4 GHz ... 2 Hz 3 V/m, 2 GHz ... 2.7 GHz 1 V/m

Verification of suitability

CE / UL / CSA / CCC

Protection against electrical shock

finger-safe

#### Certificates/approvals:

General Product Approval

For use in hazardous locations



Declaration of Conformity

Test Certificates

other



[Type Test Certificates/Test Report](#)

[Environmental Confirmations](#)

#### 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**

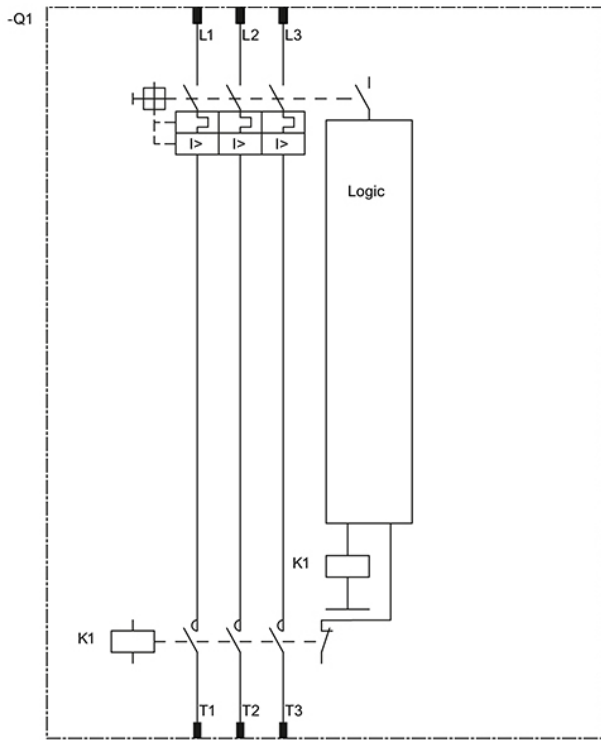
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RK1301-1CB00-0AA2/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RK1301-1CB00-0AA2](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1301-1CB00-0AA2)



last change:

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