

DS1-X FOR ET 200S ELECTROMECHANICS LINE  
STARTER EXPANDABLE ADJUSTABLE RANGE  
0.22...0.32A AC-3, 0.09 KW/400V FOR BRAKE  
CONTROL MODULE



Figure similar

| General technical data:              |  |                       |
|--------------------------------------|--|-----------------------|
| product brand name                   |  | Sirius                |
| Product designation                  |  | motor starter ET 200S |
| Design of the product                |  | direct starter        |
| Product function                     |  |                       |
| • Bus communication                  |  | Yes                   |
| • direct start                       |  | Yes                   |
| • reverse starting                   |  | No                    |
| • on-site operation                  |  | Yes                   |
| • Short circuit protection           |  | Yes                   |
| Design of the switching contact      |  | electromechanical     |
| Product component Motor brake output |  | Yes                   |
| Trip class                           |  | CLASS 10              |
| Type of assignment                   |  | 2                     |
| Product feature                      |  |                       |
| • 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>Surge voltage resistance rated value</b>                                                | kV | 6                            |
| <b>Insulation voltage rated value</b>                                                      | V  | 500                          |
| <b>Power loss [W] typical</b>                                                              | W  | 9                            |
| <b>maximum permissible voltage for safe isolation between main and auxiliary circuit</b>   | V  | 400                          |
| <b>Equipment marking acc. to DIN EN 61346-2</b>                                            |    | Q                            |
| <b>Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750</b> |    | A                            |
| <b>Mounting type</b>                                                                       |    | pluggable on terminal module |
| <b>Depth</b>                                                                               | mm | 120                          |
| <b>Height</b>                                                                              | mm | 265                          |
| <b>Width</b>                                                                               | mm | 45                           |

#### Main circuit:

|                                                                                   |    |                  |
|-----------------------------------------------------------------------------------|----|------------------|
| <b>Operating voltage rated value</b>                                              | V  | 400 ... 400      |
| <b>Adjustable pick-up value current of the current-dependent overload release</b> | A  | 0.22 ... 0.32    |
| <b>Operating power</b>                                                            |    |                  |
| • at AC-3 at 400 V rated value                                                    | kW | 0.09             |
| • for three-phase motors at 400 V at 50 Hz minimum                                | kW | 0.09             |
| • for three-phase motors at 400 V at 50 Hz maximum                                | kW | 0.09             |
| <b>Maximum short-circuit current breaking capacity (Icu) at 400 V rated value</b> | kA | 50               |
| <b>Design of 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 service life (switching cycles) of the main contacts typical</b>    |    | 100 000          |

#### Control circuit/ Control:

|                                                      |   |               |
|------------------------------------------------------|---|---------------|
| <b>Type of voltage of the control supply voltage</b> |   | DC            |
| <b>Control supply voltage 1 at DC</b>                | V | 24 ... 24     |
| <b>Control supply voltage 1 at DC rated value</b>    | V | 20.4 ... 28.8 |

#### Supply voltage:

|                                              |   |               |
|----------------------------------------------|---|---------------|
| <b>Type of voltage of the supply voltage</b> |   | DC            |
| <b>Supply voltage 1 at DC</b>                | V | 24 ... 24     |
| <b>Supply voltage 1 at DC rated value</b>    | V | 20.4 ... 28.8 |

#### Ambient conditions:

|                            |  |      |
|----------------------------|--|------|
| <b>Protection class IP</b> |  | IP20 |
|----------------------------|--|------|

|                                                                |    |                                                         |
|----------------------------------------------------------------|----|---------------------------------------------------------|
| <b>Ambient temperature</b>                                     |    |                                                         |
| • during operation                                             | °C | 0 ... 60                                                |
| • during storage                                               | °C | -40 ... +70                                             |
| • during transport                                             | °C | -40 ... +70                                             |
| <b>Relative humidity during operation</b>                      | %  | 5 ... 95                                                |
| <b>Vibration resistance</b>                                    |    | 2g                                                      |
| <b>Shock resistance</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 height above sea level maximum</b> | m  | 2 000                                                   |
| <b>Mounting position</b>                                       |    | vertical, horizontal                                    |

#### Communication/ Protocol:

|                                                  |  |                   |
|--------------------------------------------------|--|-------------------|
| <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>Type of electrical connection</b>             |  |                   |
| • of the communication interface                 |  | via backplane bus |
| • for communication transmission                 |  | via backplane bus |

#### Connections/ Terminals:

|                                                 |  |                      |
|-------------------------------------------------|--|----------------------|
| <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>Type of electrical connection</b>            |  |                      |
| • 1 for digital input signals                   |  | using control module |
| • 2 for digital input signals                   |  | using control module |
| <b>Type of electrical connection</b>            |  |                      |
| • at the manufacturer-specific device interface |  | plug                 |
| • for main energy infeed                        |  | screw-type terminals |
| • for load-side outgoing feeder                 |  | Screw-type terminals |
| • for main energy transmission                  |  | via energy bus       |
| • for supply voltage line-side                  |  | via backplane bus    |
| • for supply voltage transmission               |  | via backplane bus    |
| • for main current circuit                      |  | screw-type terminals |

#### Electromagnetic compatibility:

|                                                                               |  |                                                                          |
|-------------------------------------------------------------------------------|--|--------------------------------------------------------------------------|
| Conducted interference due to burst acc. to IEC 61000-4-4                     |  | 2 kV on voltage supply, inputs and outputs                               |
| Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5     |  | 2 kV (U > 24 V DC)                                                       |
| Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5 |  | 1 kV (U > 24 V DC)                                                       |
| Field-bound parasitic coupling acc. 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 |

#### Safety related data:

|                                     |             |
|-------------------------------------|-------------|
| Protection against electrical shock | finger-safe |
|-------------------------------------|-------------|

#### Certificates/ approvals:

| General Product Approval                                                          |                                                                                   |                                                                                   | For use in hazardous locations                                                    |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| CCC                                                                               | CSA                                                                               | UL                                                                                |                                                                                   | ATEX                                                                                | IECEX                                                                               |

| Functional Safety/Safety of Machinery | Declaration of Conformity | Test Certificates | other |  |
|---------------------------------------|---------------------------|-------------------|-------|--|
|---------------------------------------|---------------------------|-------------------|-------|--|

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[Typprüfbescheinigung/Werkszeugnis](#)

[Umweltbestätigung](#)

[Bestätigungen](#)

#### Further information

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

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

Industry Mall (Online ordering system)

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

Cax online generator

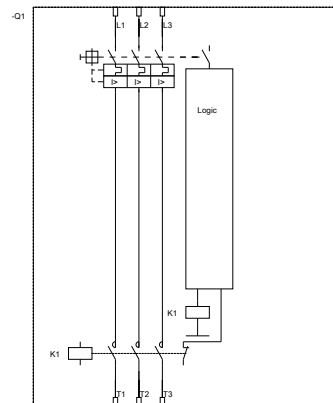
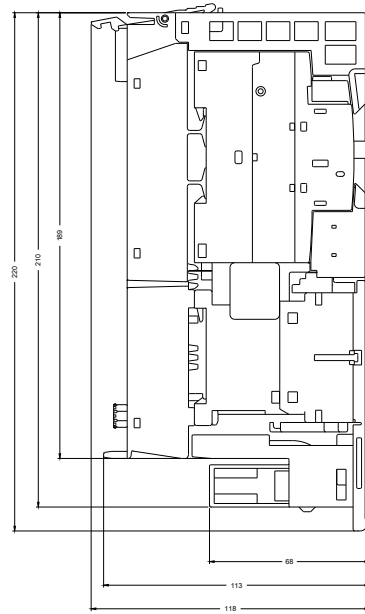
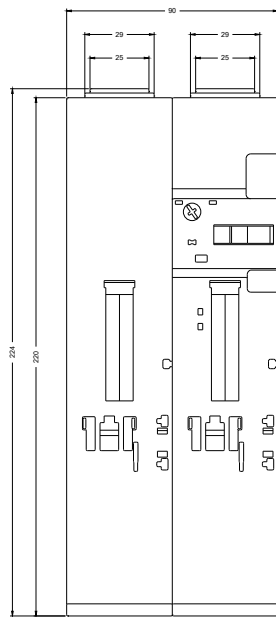
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0DB00-0AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0DB00-0AA2>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1301-0DB00-0AA2&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0DB00-0AA2&lang=en)



DI 0.0      Bereit  
 DI 0.1      Schütz ein  
 DI 0.2      Leistungsschalter ausg.

DO 0.0      Motor ein  
 DO 0.2      Bremse

DI 0.0      Ready  
 DI 0.1      Contactor on  
 DI 0.2      Circuit breaker tripped

DO 0.0      Motor on  
 DO 0.2      Brake

last modified:

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