



DSS1E-X FOR ET200S HIGH FEAT. DIRECT SOFT STARTER SETTING RANGE 2.4...8A SWITCH ELECTRONICALLY PROTECT ELECTRONICALLY AC-3/UP TO 3KW/400V EXPANDABLE FOR BRAKE CONTROL MOD. 2DI MOD. MOTOR STARTER ES

**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>	solid-state
<b>Product component / outlet for engine brake</b>	Yes
<b>Trip class</b>	CLASS 10 and 10A adjustable
<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	12
<b>Maximum permissible voltage for safe disconnection / between main circuit and auxiliary circuit</b>	V	400
<b>Reference code</b> <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 A
<b>Mounting type</b>		Can be plugged into terminal module
<b>Depth</b>	mm	150
<b>Height</b>	mm	290
<b>Width</b>	mm	65

#### Main circuit:

<b>Operating voltage</b> <ul style="list-style-type: none"> <li>• rated value</li> </ul>	V	400 ... 500
<b>Adjustable response current</b> <ul style="list-style-type: none"> <li>• of the current-dependent overload release</li> </ul>	A	2.4 ... 8
<b>Service power</b> <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	3 1.1 ... 3
<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>		solid-state

#### Control circuit:

<b>Voltage type / of control feed voltage</b>		DC
<b>Control supply voltage / 1</b> <ul style="list-style-type: none"> <li>• for DC</li> </ul>	V	24 ... 24
<b>Control supply voltage / 1 / for DC</b> <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> <ul style="list-style-type: none"> <li>• for DC</li> </ul>	V	24 ... 24
<b>Supply voltage / 1 / for DC</b> <ul style="list-style-type: none"> <li>• rated value</li> </ul>	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>		2
<b>Number of sockets</b>		
• for digital input signals		0
• for digital output signals		0
<b>Product function</b>		
• digital inputs parameterizable		Yes
• 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		screw-type terminals
• for main energy transmission		via energy bus

- for supply voltage infeed
- for supply voltage transmission
- for main current circuit

via backplane bus  
via backplane bus  
screw-type terminals

#### EMC:

<b>Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4</b>	2 kV on voltage supply, inputs and outputs
<b>Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5</b>	2 kV (U > 24 V DC)
<b>Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5</b>	1 kV (U > 24 V DC)
<b>Field-bound parasitic coupling / according to IEC 61000-4-3</b>	80 MHz ... 1 GHz 10 V/m, 1.4 GHz ... 2 GHz 3 V/m, 2 GHz ... 2.7 GHz 1 V/m
<b>Verification of suitability</b>	CE / UL / CSA / CCC
<b>Protection against electrical shock</b>	finger-safe

#### Certificates/approvals:

##### General Product Approval

##### Declaration of Conformity

##### Test Certificates



[Type Test Certificates/Test Report](#)

##### other

[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/3RK1301-0BB20-0AA3/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RK1301-0BB20-0AA3](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1301-0BB20-0AA3)

last change:

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