



DS1E-X FOR ET200S HIGH FEATURE DIRECT STARTER SETTING RANGE 0.3...3A MECHANICAL SWITCHING ELECTRONIC CONTACTOR AC-3/TO 1.1KW/400V EXPANDABLE FOR BRAKE CONTROL MODULE 2DI MODULE MOTORSTARTER ES SIGNAL FROM CIRCUIT-BREAKER PARAMETERIZABLE DPV 1 CAPABLE PROFIENERGY CAPABLE ON PN

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 Motor brake output</b>		Yes
<b>Trip class</b>		CLASS 5, 10, 15, 20
<b>Type of assignment</b>		2
<b>Product feature</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

Product extension braking module for brake control		Yes
Surge voltage resistance rated value	kV	6
Insulation voltage rated value	V	500
Power loss [W] typical	W	9
maximum permissible voltage for safe isolation between main and auxiliary circuit	V	400
Equipment marking acc. to DIN EN 61346-2		Q
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		A
Mounting type		pluggable on terminal module
Depth	mm	150
Height	mm	290
Width	mm	65

#### Main circuit:

Operating voltage rated value	V	400 ... 400
Adjustable pick-up value current of the current-dependent overload release	A	0.3 ... 3
Operating power		
• at AC-3 at 400 V rated value	kW	1.1
• for three-phase motors at 400 V at 50 Hz minimum	kW	0.1
• for three-phase motors at 400 V at 50 Hz maximum	kW	1.1
Maximum short-circuit current breaking capacity (Icu) at 400 V rated value	kA	50
Design of short-circuit protection		circuit-breakers
Number of poles for main current circuit		3
Type of the motor protection		solid-state
Mechanical service life (switching cycles) of the main contacts typical		100 000

#### Control circuit/ Control:

Type of voltage of the control supply voltage		DC
Control supply voltage 1 at DC	V	24 ... 24
Control supply voltage 1 at DC rated value	V	20.4 ... 28.8

#### Supply voltage:

Type of voltage of the supply voltage		DC
Supply voltage 1 at DC	V	24 ... 24
Supply voltage 1 at DC rated value	V	20.4 ... 28.8

#### Ambient conditions:

Protection class IP		IP20
Ambient temperature		
• 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>		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>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:

<b>Conducted interference due to burst acc. to IEC 61000-4-4</b>		2 kV on voltage supply, inputs and outputs
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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
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Certificates/ approvals:

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity
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Test Certificates	other
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[Umweltbestätigung](#)

[Bestätigungen](#)



Profibus

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**

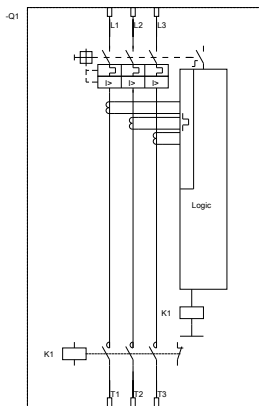
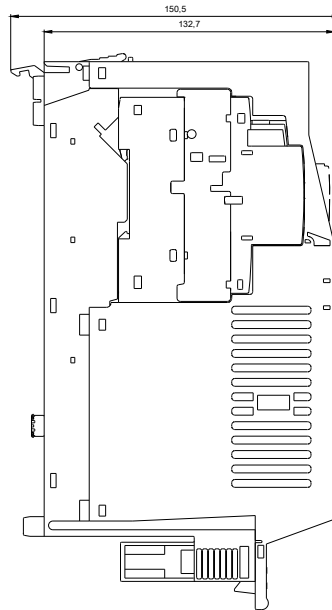
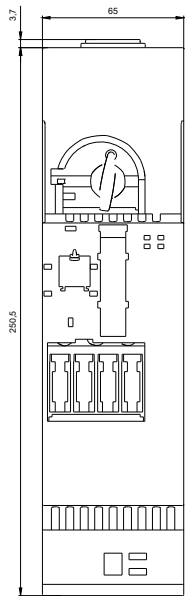
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0AB10-0AB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0AB10-0AB4>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1301-0AB10-0AB4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0AB10-0AB4&lang=en)



DI 0.0	Bereit
DI 0.1	Motor EIN
DI 0.2	Sammelfehler
DI 0.3	Sammelfehler
DI 0.4	Eingang 1
DI 0.5	Eingang 2
DI 0.6	Eingang 3
DI 0.7	Eingang 4
DI 1.0 - DI 1.5	Motorstrom
DI 1.6	Hand-Vor-Ort
DO 0.0	Motor Rechts
DO 0.2	Brmsse
DO 0.3	Trip Reset
DO 0.4	Notstart
DO 0.5	Selbsttest
DO 1.7	Quickstop sperren
DI 0.0	Ready from Host/PLC
DI 0.1	Motor ON
DI 0.2	Group error
DI 0.3	General warning
DI 0.4	Input 1
DI 0.5	Input 2
DI 0.6	Input 3
DI 0.7	Input 4
DI 1.0 - DI 1.5	Motor current
DI 1.6	Manual operation local
DO 0.0	Motor clockwise
DO 0.2	Brake
DO 0.3	Trip Reset
DO 0.4	Emergency start
DO 0.5	Self-test
DO 1.7	Lock quick stop

last modified:

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