

DS1-X FOR ET 200S ELECTROMECHANICS LINE  
 STARTER EXPANDABLE ADJUSTABLE RANGE  
 0.18...0.25A AC-3, 0.06 KW/400V FOR BRAKE  
 CONTROL MODULE



General technical data:		
product brandname		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

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	120
Height	mm	265
Width	mm	45

#### Main circuit:

Operating voltage rated value	V	200 ... 400
Adjustable pick-up value current of the current-dependent overload release	A	0.18 ... 0.25
Operating power		
• at AC-3 at 400 V rated value	kW	0.06
• for three-phase motors at 400 V at 50 Hz minimum	kW	0.06
• for three-phase motors at 400 V at 50 Hz maximum	kW	0.06
Maximum short-circuit current breaking capacity (I <sub>cu</sub> ) 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		bimetal
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>		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:

<b>EMI immunity acc. to IEC 60947-1</b>		corresponds to degree of severity 3, ambience A (industrial sector)
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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
EMC emitted interference acc. to IEC 60947-1		CISPR11, ambience A (industrial sector)

#### Safety related data:

Protection against electrical shock	finger-safe
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#### Certificates/ approvals:

General Product Approval	For use in hazardous locations
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CCC



CSA



UL



ATEX



IECEX

Declaration of Conformity	Test Certificates	other
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EG-Konf.

[Type Test Certificates/Test Report](#)

[Environmental Confirmations](#)

[Confirmation](#)

#### 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**

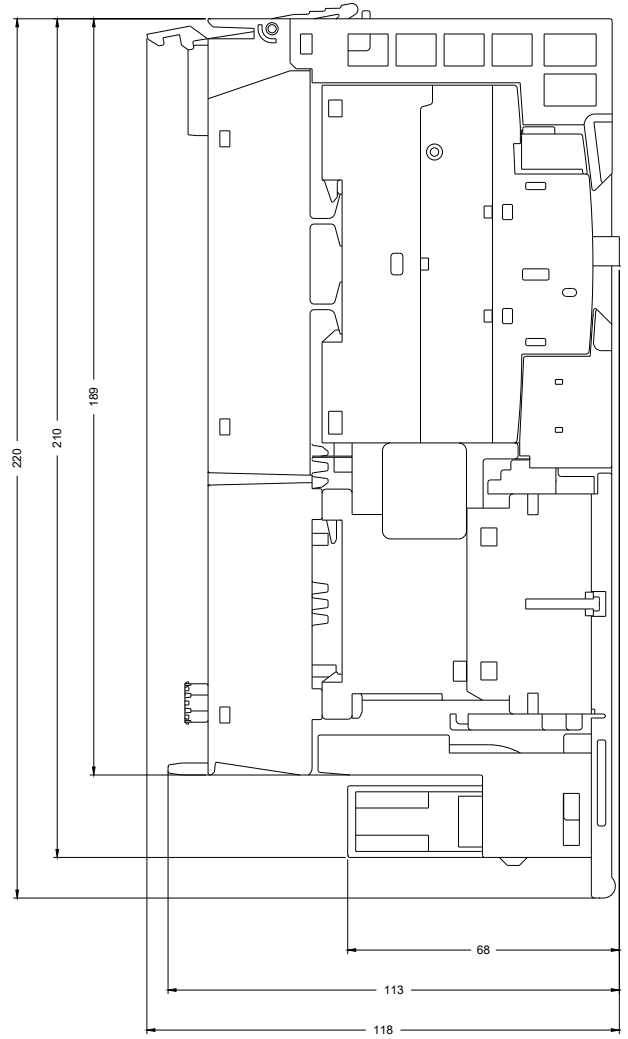
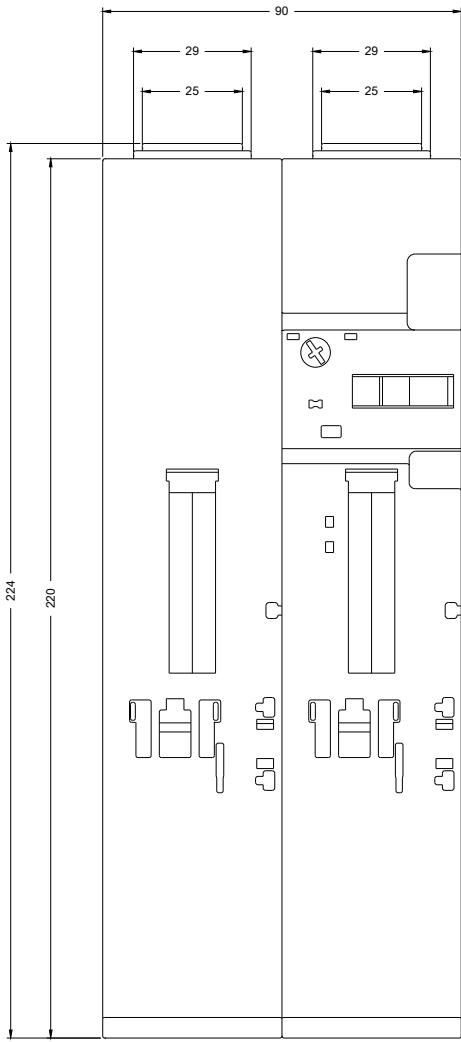
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0CB00-0AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0CB00-0AA2>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1301-0CB00-0AA2&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0CB00-0AA2&lang=en)

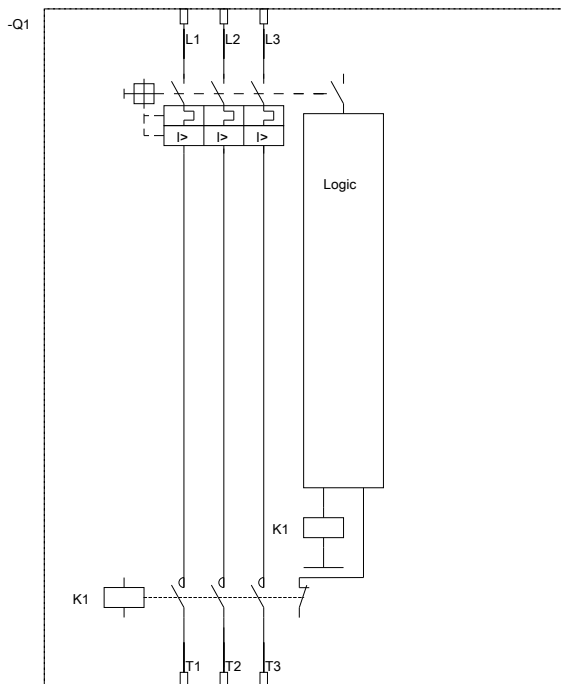


DI 0.0      Bereit  
 DI 0.1      Schütz ein  
 DI 0.2      Leistungsschalter ausg.

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:

08/11/2017