



F-DS1E-X FOR ET 200S FAILSAFE DIRECT STARTER
 SETTING RANGE 0.3...3A MECHANICAL SWITCHING
 ELECTRONIC PROTECTION AC-3,
 TO 1.1KW/400V,
 CAN BE EXPANDED FOR BRAKE CONTROL MODULE
 FOR 2DI CONTROL MODULE

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 / outlet for engine brake	Yes
Trip class	CLASS 10 and 20 adjustable
Type of assignment	2
Product equipment	
• 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

Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	500
Active power loss / typical	W	9
Maximum permissible voltage for safe disconnection / between main circuit and auxiliary circuit	V	400
Reference code <ul style="list-style-type: none"> • according to DIN EN 61346-2 • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 		Q A
Mounting type		Can be plugged into terminal module
Depth	mm	150
Height	mm	290
Width	mm	65

Main circuit:

Operating voltage <ul style="list-style-type: none"> • rated value 	V	400 ... 500
Adjustable response current <ul style="list-style-type: none"> • of the current-dependent overload release 	A	0.3 ... 3
Service power <ul style="list-style-type: none"> • at AC-3 / at 400 V / rated value • for three-phase servomotors / at 400 V / at 50 Hz • minimum 	kW	1.1 0.1 ... 1.1
Breaking capacity limit short-circuit current (I_{cu}) / at 400 V / rated value	kA	50
Design of the short-circuit protection		circuit-breakers
Number of poles / for main current circuit		3
Type of the motor protection		solid-state
Mechanical operating cycles as operating time / of the main contacts / typical		100,000

Control circuit:

Voltage type / of control feed voltage		DC
Control supply voltage / 1 <ul style="list-style-type: none"> • for DC 	V	24 ... 24
Control supply voltage / 1 / for DC <ul style="list-style-type: none"> • rated value 	V	21.6 ... 26.4

Supply voltage:

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

Supply voltage / 1 / for DC		
<ul style="list-style-type: none"> rated value 	V	20.4 ... 28.8

Ambient conditions:

Protection class IP		IP20
Ambient temperature		
<ul style="list-style-type: none"> during operating 	°C	0 ... 60
<ul style="list-style-type: none"> during storage 	°C	-40 ... +70
<ul style="list-style-type: none"> during transport 	°C	-40 ... +70
Relative humidity		
<ul style="list-style-type: none"> during operating phase 	%	5 ... 95
Resistance against vibration		2g
Resistance against shock		5g / 11 ms
Degree of pollution		3 at 400 V, 2 at 500 V according to IEC60664 (IEC61131)
Installation altitude / at a height over sea level / maximum	m	2,000
mounting position		vertical, horizontal

Communication:

Protocol / is supported		
<ul style="list-style-type: none"> PROFIBUS DP protocol 		Yes
<ul style="list-style-type: none"> PROFINET protocol 		Yes
<ul style="list-style-type: none"> AS interface protocol 		No
Design of the interface / PROFINET protocol		Yes
Design of the electrical connection		
<ul style="list-style-type: none"> of the communication interface 		via backplane bus
<ul style="list-style-type: none"> for communication transmission 		via backplane bus

Connections:

Number of digital inputs		2
Number of sockets		
<ul style="list-style-type: none"> for digital input signals 		0
<ul style="list-style-type: none"> for digital output signals 		0
Product function		
<ul style="list-style-type: none"> digital inputs parameterizable 		Yes
<ul style="list-style-type: none"> digital outputs parameterizable 		No
Design of the electrical connection		
<ul style="list-style-type: none"> 1 / for digital input signals 		using control module
<ul style="list-style-type: none"> 2 / for digital input signals 		using control module
<ul style="list-style-type: none"> at the manufacturer-specific device interface 		plug
<ul style="list-style-type: none"> 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

Declaration of Conformity



CCC



CSA



GOST



UL



EG-Konf.

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

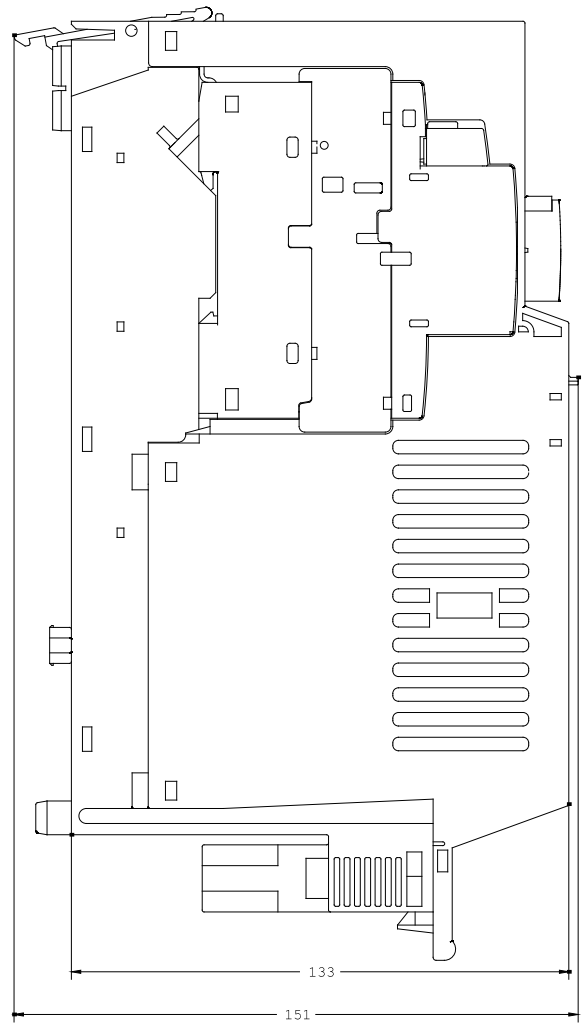
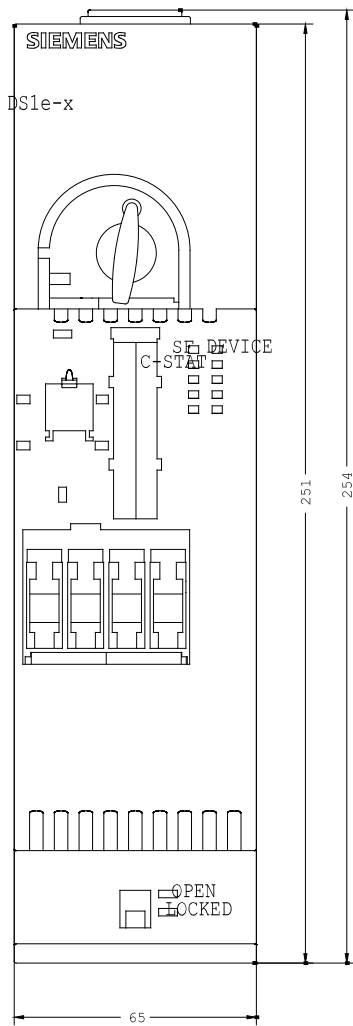
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RK1301-0AB13-0AA2/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1301-0AB13-0AA2



last change:

Aug 4, 2014