



F-RS1E-X FOR ET 200S FAILSAFE REVERSING 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:

<b>product brandname</b>		Sirius
<b>Product designation</b>		motor starter ET 200S
<b>Design of the product</b>		reversing starter
<b>Product function</b>		
• Bus communication		Yes
• direct start		No
• reverse starting		Yes
• 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 10 and 20 adjustable
<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	130

#### Main circuit:

Operating voltage rated value	V	200 ... 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	21.6 ... 26.4

#### 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

<ul style="list-style-type: none"> <li>during storage</li> </ul>	°C	-40 ... +70
<ul style="list-style-type: none"> <li>during transport</li> </ul>	°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>		
<ul style="list-style-type: none"> <li>PROFIBUS DP protocol</li> </ul>		Yes
<ul style="list-style-type: none"> <li>PROFINET protocol</li> </ul>		Yes
<ul style="list-style-type: none"> <li>AS-interface protocol</li> </ul>		No
<b>Design of the interface PROFINET protocol</b>		Yes
<b>Type of electrical connection</b>		
<ul style="list-style-type: none"> <li>of the communication interface</li> </ul>		via backplane bus
<ul style="list-style-type: none"> <li>for communication transmission</li> </ul>		via backplane bus

#### Connections/ Terminals:

<b>Number of digital inputs</b>		2
<b>Number of sockets</b>		
<ul style="list-style-type: none"> <li>for digital input signals</li> </ul>		0
<ul style="list-style-type: none"> <li>for digital output signals</li> </ul>		0
<b>Product function</b>		
<ul style="list-style-type: none"> <li>digital inputs parameterizable</li> </ul>		Yes
<ul style="list-style-type: none"> <li>digital outputs parameterizable</li> </ul>		No
<b>Type of electrical connection</b>		
<ul style="list-style-type: none"> <li>1 for digital input signals</li> </ul>		using control module
<ul style="list-style-type: none"> <li>2 for digital input signals</li> </ul>		using control module
<b>Type of electrical connection</b>		
<ul style="list-style-type: none"> <li>at the manufacturer-specific device interface</li> </ul>		plug
<ul style="list-style-type: none"> <li>for main energy infeed</li> </ul>		screw-type terminals
<ul style="list-style-type: none"> <li>for load-side outgoing feeder</li> </ul>		Screw-type terminals
<ul style="list-style-type: none"> <li>for main energy transmission</li> </ul>		via energy bus
<ul style="list-style-type: none"> <li>for supply voltage line-side</li> </ul>		via backplane bus
<ul style="list-style-type: none"> <li>for supply voltage transmission</li> </ul>		via backplane bus
<ul style="list-style-type: none"> <li>for main current circuit</li> </ul>		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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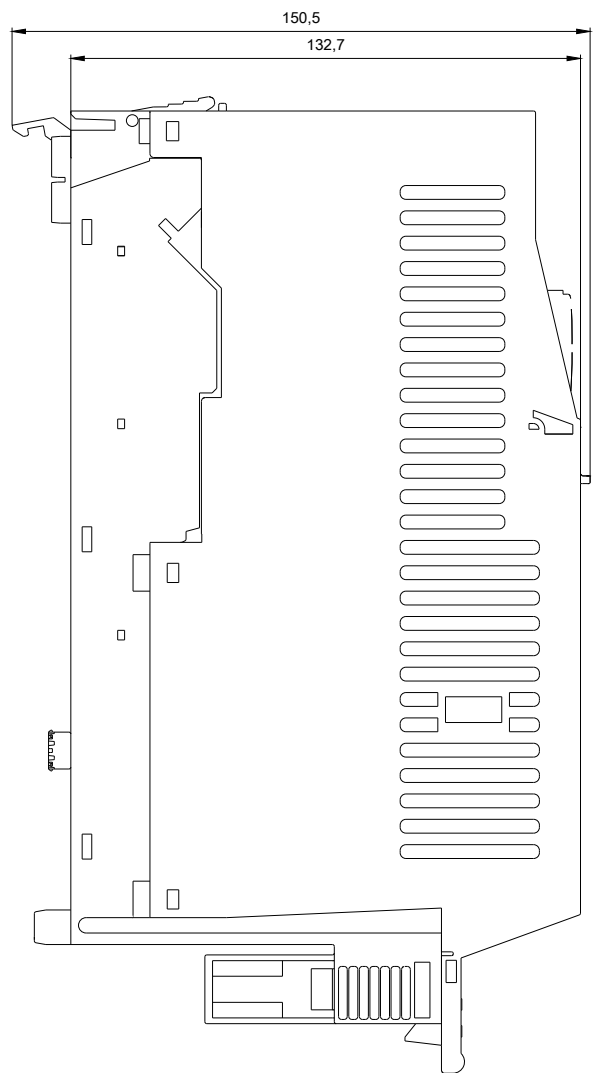
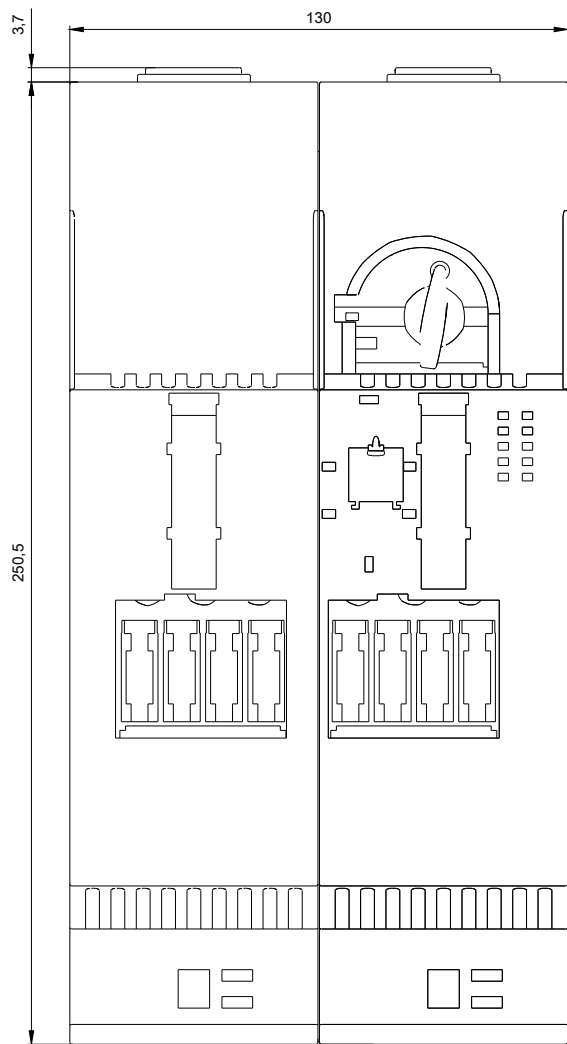
#### Certificates/ approvals:

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity
 CCC  CSA  UL  EAC	<a href="#">Type Examination</a>	 EG-Konf.

Test Certificates	other
<a href="#">Type Test Certificates/Test Report</a>	<a href="#">Environmental Confirmations</a>
	<a href="#">Confirmation</a>

#### 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=3RK1301-0AB13-1AA2>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0AB13-1AA2>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1301-0AB13-1AA2&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0AB13-1AA2&lang=en)



last modified:

08/11/2017