



F-RS1E-X FOR ET 200S FAILSAFE REVERSING STARTER SETTING RANGE 2.4...8A MECHANICAL SWITCHING ELECTRONIC PROTECTION AC-3/TO 3KW/400V EXPANDABLE FOR BRAKE CONTROL MODULE 2DI MODULE 2DI MODULE SIGNAL FROM CIRCUIT-BREAKER PARAMETERIZABLE

Figure similar

General technical data:		
product brand name		Sirius
Product designation		motor starter ET 200S
Design of the product		reversing starter
Product function		
• Bus communication		Yes
• direct start		No
• reverse starting		Yes
• on-site operation		Yes
• Short circuit protection		Yes
Design of the switching contact		electromechanical
Product component Motor brake output		Yes
Trip class		CLASS 10 and 20 adjustable
Type of assignment		2
Product feature		
• brake control with 230 V AC		No
• brake control with 24 V DC		No

<ul style="list-style-type: none"> <li>• brake control with 180 V DC</li> <li>• brake control with 500 V DC</li> </ul>		No
<b>Product extension braking module for brake control</b>		Yes
<b>Surge voltage resistance rated value</b>	kV	6
<b>Insulation voltage rated value</b>	V	500
<b>Power loss [W] typical</b>	W	10
<b>maximum permissible voltage for safe isolation between main and auxiliary circuit</b>	V	400
<b>Equipment marking acc. to DIN EN 61346-2</b>		Q
<b>Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750</b>		A
<b>Mounting type</b>		pluggable on terminal module
<b>Depth</b>	mm	150
<b>Height</b>	mm	290
<b>Width</b>	mm	130

#### Main circuit:

<b>Operating voltage rated value</b>	V	400 ... 400
<b>Adjustable pick-up value current of the current-dependent overload release</b>	A	2.4 ... 8
<b>Operating power</b>		
<ul style="list-style-type: none"> <li>• at AC-3 at 400 V rated value</li> </ul>	kW	3
<ul style="list-style-type: none"> <li>• for three-phase motors at 400 V at 50 Hz minimum</li> </ul>	kW	1.1
<ul style="list-style-type: none"> <li>• for three-phase motors at 400 V at 50 Hz maximum</li> </ul>	kW	3
<b>Maximum short-circuit current breaking capacity (I<sub>cu</sub>) at 400 V rated value</b>	kA	50
<b>Design of 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
<b>Mechanical service life (switching cycles) of the main contacts typical</b>		100 000

#### Control circuit/ Control:

<b>Type of voltage of the control supply voltage</b>		DC
<b>Control supply voltage 1 at DC</b>	V	24 ... 24
<b>Control supply voltage 1 at DC rated value</b>	V	21.6 ... 26.4

#### Supply voltage:

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

#### Ambient conditions:

<b>Protection class IP</b>		IP20
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<b>Ambient temperature</b>		
• 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:

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

Safety related data:

Protection against electrical shock		finger-safe
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Certificates/ approvals:

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

[Bestätigungen](#)

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

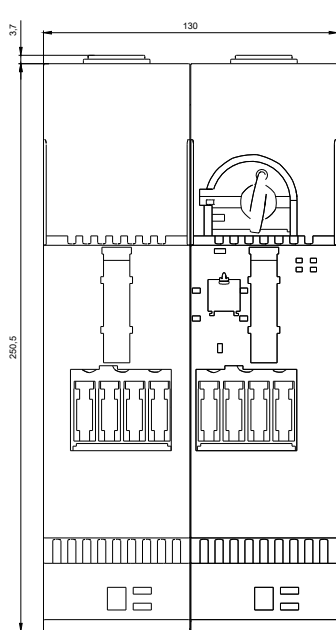
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0BB13-1AA4>

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

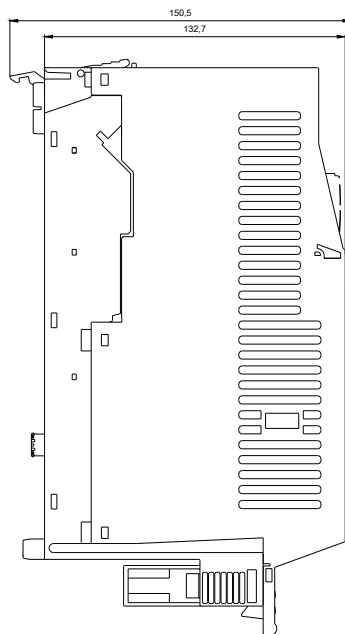
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0BB13-1AA4>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1301-0BB13-1AA4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0BB13-1AA4&lang=en)



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