Product data sheet



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:		
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 / outlet for enine brake		Yes
Trip class		CLASS 10 and 20 adjustable
Type of assignement		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		
according to DIN EN 61346-2		Q
 according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 		A
Mounting type		Can be plugged into terminal module
Depth	mm	150
Height	mm	290
Width	mm	130
Main circuit:		
Operating voltage		
rated value	V	400 500
Adjustable response current		
of the current-dependent overload release	Α	0.3 3
Service power		
• at AC-3 / at 400 V / rated value	kW	1.1
• for three-phase servomotors / at 400 V / at 50 Hz		
• minimum	kW	0.1 1.1
Breaking capacity limit short-circuit current (lcu) / 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		
• for DC	V	24 24
Control supply voltage / 1 / for DC		
• rated value	V	21.6 26.4
Supply voltage:		
Type of / supply voltage		DC
Supply voltage / 1		
• for DC	V	24 24

+ rated value Ambient conditions: Protection class IP Ambient temperature - during operating - during generaling - during operating - during operating - during operating - during operating or C - 40 + 70 Relative humidity - during operating phase - 86 5 95 Resistance against vibration - 2g Resistance against vibration - 2g Resistance against shock - 5g /11 ms - 3g +400 V, 2 at 500 V according to IEC60664 (IEC61131) Installation altitude / at a height over sea level / maximum mounting position Communication: Protocol / is supported - PROFINET protocol - PROFINET protocol - PROFINET protocol - PROFINET protocol - 40 + 70 Ves - Ves	Supply voltage / 1 / for DC		
Protection class IP Ambient temperature - during operating or C - 40 +70 - during transport - C - 40 +70 - during reasyport - C - 40 +70 - An	• rated value	V	20.4 28.8
Ambient temperature • during operating • during storage • during transport Relative humidity • during operating phase Resistance against vibration Resistance against vibration Resistance against shock Degree of pollution Installation altitude / at a height over sea level / maximum mounting position Communication: Protocol / is supported • PROFIBUS DP protocol • PROFIBUS DP protocol • AS interface protocol • AS interface protocol • AS interface protocol • AS interface protocol • Of the communication transmission Connections: Number of digital input signals • for digital input signals • at the manufacturer-specific device interface • plug • at the manufacturer-specific device interface • plug • at the manufacturer-specific device interface • plug	Ambient conditions:		
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*during transport	during operating	°C	0 60
Relative hunidity	during storage	°C	-40 +70
- during operating phase	during transport	°C	-40 +70
Resistance against vibration Resistance against shock Degree of pollution Installation altitude / at a height over sea level / maximum m 2,000 mounting position Communication: Protocol / is supported - PROFIBUS DP protocol - PROFINET protocol - AS interface protocol - AS interface / PROFINET protocol - of the communication interface - for communication interface - for communication transmission Connections: Number of digital inputs - for digital inputs signals - of digital output signals - digital output parameterizable - digital input signals - 1 / for digital input signals - 2 / for digital input signals - 3 at 400 V, 2 at 500 V according to IEC60664 (IEC61131) - 3 at 400 V, 2 at 500 V according to IEC60664 (IEC6131) - 4 / 000 - 4 / 000 - 4 / 000 - 4 / 000 - 7	Relative humidity		
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Degree of pollution Sat 400 V, 2 at 500 V according to IEC60664 (IEC61131)	Resistance against vibration		2g
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• digital outputs parameterizable Design of the electrical connection • 1 / for digital input signals • 2 / for digital input signals • at the manufacturer-specific device interface No using control module using control module plug	Product function		
Design of the electrical connection • 1 / for digital input signals • 2 / for digital input signals • at the manufacturer-specific device interface using control module using control module plug	digital inputs parameterizable		Yes
 1 / for digital input signals 2 / for digital input signals at the manufacturer-specific device interface using control module plug 	digital outputs parameterizable		No
 2 / for digital input signals at the manufacturer-specific device interface plug 	Design of the electrical connection		
• at the manufacturer-specific device interface plug	• 1 / for digital input signals		using control module
	• 2 / for digital input signals		using control module
• for main energy infeed screw-type terminals	at the manufacturer-specific device interface		plug
	• for main energy infeed		screw-type terminals

• for motor outgoing line	screw-type terminals
• for main energy transmission	via energy bus
• for supply voltage infeed	via backplane bus
• for supply voltage transmission	via backplane bus
for main current circuit	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 GHz2 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













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/3RK1301-0AB13-1AA2/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1301-0AB13-1AA2}$

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