SIEMENS

Data sheet   **3RK1301-0AB13-0AA2**

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 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 and 20 adjustable
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

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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	65

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

• during storage	°C	-40 ... +70	
• during transport	°C	-40 ... +70	
Relative humidity during operation	%	5 ... 95	
Vibration resistance		2g	
Shock resistance		5g / 11 ms	
Degree of pollution		3 at 400 V, 2 at 500 V according to IEC60664 (IEC61131)	
Installation altitude at height above sea level maximum	m	2 000	
Mounting position		vertical, horizontal	

Communication/ Protocol:

Protocol is supported		
• PROFIBUS DP protocol	Yes	
• PROFINET protocol	Yes	
• AS-interface protocol	No	
Design of the interface PROFINET protocol	Yes	
Type of electrical connection		
• of the communication interface	via backplane bus	
• for communication transmission	via backplane bus	

Connections/ Terminals:

Number of digital inputs	2	
Number of sockets		
• for digital input signals	0	
• for digital output signals	0	
Product function		
• digital inputs parameterizable	Yes	
• digital outputs parameterizable	No	
Type of electrical connection		
• 1 for digital input signals	using control module	
• 2 for digital input signals	using control module	
Type of electrical connection		
• 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:

EMI immunity acc. to IEC 60947-1	corresponds to degree of severity 3, ambience A (industrial sector)	

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

Certificates/ approvals:

General Product Approval				Functional Safety/Safety of Machinery	Declaration of Conformity
CCC	CSA	UL	EAC	Type Examination	CE EG-Konf.

Test Certificates	other
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=3RK1301-0AB13-0AA2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0AB13-0AA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0AB13-0AA2&lang=en

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