SIEMENS

Data sheet

3RK1301-0BB13-0AA2



F-DS1E-X FOR ET 200S FAILSAFE DIRECT STARTER SETTING RANGE 2.4...8A, MECHANICAL SWITCHING ELECTRONIC PROTECTION AC-3, TO 3KW/400V, CAN BE EXPANDED FOR BRAKE CONTROL MODULE FOR 2DI CONTROL MODUL

Seneral 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

Surge voltage resistance rated value	kV	
	KV	6
Insulation voltage rated value	V	500
Power loss [W] typical	W	10
maximum permissible voltage for safe isolation	V	400
between main and auxiliary circuit		
Equipment marking acc. to DIN EN 61346-2		Q
Equipment marking acc. to DIN 40719 extended		A
according to IEC 204-2 acc. to IEC 750		
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	Α	2.4 8
Operating power		
• at AC-3 at 400 V rated value	kW	3
 for three-phase motors at 400 V at 50 Hz minimum 	kW	1.1
 for three-phase motors at 400 V at 50 Hz maximum 	kW	3
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 +7 0
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

Е	ieci	tror	nagi	netic	com	oatibili	ıty:

• for main current circuit

EMI immunity acc. to IEC 60947-1

corresponds to degree of severity 3, ambience A (industrial sector)

screw-type terminals

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 GHz2 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)

Safetv related data:

Protection against electrical shock finger-safe

Certificates/ approvals:

General Product Approval
Functional
Safety/Safety
of Machinery

Declaration of
Conformity









Type Examination



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=3RK1301-0BB13-0AA2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0BB13-0AA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0BB13-0AA2&lang=en

last modified: 08/11/2017