SIEMENS

Product data sheet 3RK1301-0BB10-0AB4

DS1E-X FOR ET200S HIGH FEATURE DIRECT STARTER SETTING RANGE 2.4...8A MECHANICAL SWITCHING ELECTRONIC PROTECTION AC-3/TO 3KW/400V EXPANDABLE FOR BRAKE CONTROL MODULE 2DI MODULE 2DI MODULE MOTORSTARTER ES SIGNAL FROM CIRCUIT-BREAKER PARAMETERIZABLE DPV 1 CAPABLE PROFIENERGY CAPABLE ON PN

General technical data:		
product brand name		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 5, 10, 15, 20
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
Product expansion / braking module for brake control		Yes

Surge voltage resistance / Rated value	kV	6
Insulation voltage / Rated value	V	500
Active power loss / typical	W	10
maximum permissible voltage for safe isolation / between main and auxiliary circuit	V	400
Reference code		
• acc. to DIN EN 61346-2		Q
• acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750		A
Mounting type		Can be plugged into terminal module
Depth	mm	150
Height	mm	290
Width	mm	65

Main circuit:		
Operating voltage		
• Rated value	V	400 … 500
Adjustable response value current		
• of the current-dependent overload release	A	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 … 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:		
Type of voltage / of the control supply voltage		DC
Control supply voltage / 1		
• for DC	V	24 … 24
Control supply voltage / 1 / for DC		
• Rated value	V	20.4 … 28.8

Supply voltage:		
Type of voltage / of the supply voltage		DC
Supply voltage / 1		
• for DC	V	24 … 24

Supply voltage / 1 / for 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 / is supported		
• PROFIBUS DP protocol		Yes
• PROFINET protocol		Yes
• AS-interface protocol		No
Design of the interface / PROFINET protocol		Yes
Design of the electrical connection		
• of the communication interface		via backplane bus
• for communication transmission		via backplane bus

Connections:		
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
Design of the electrical connection		
• 1 / for digital input signals		using control module
• 2 / for digital input signals		using control module
• 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 infeed		via backplane bus
• for supply voltage transmission		via backplane bus
• for main current circuit		screw-type terminals

EMC:		
Conducted interference BURST / acc. to IEC 61000-4-4		2 kV on voltage supply, inputs and outputs
Conducted interference conductor-earth SURGE / acc. to IEC 61000-4-5		2 kV (U > 24 V DC)
Conducted interference 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
Certificate of suitability		CE / UL / CSA / CCC
Protection against electrical shock		finger-safe

Certificates/approvals:

General Product Approval					Declaration of Conformity
CCC	CSA	EAC	GOST	UL	EG-Konf.

Test Certificates	other	
Type Test Certificates/Test Report	Profibus	Environmental Confirmations

Further information:

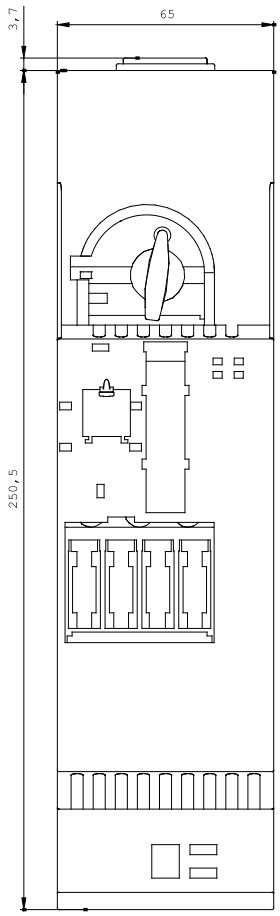
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

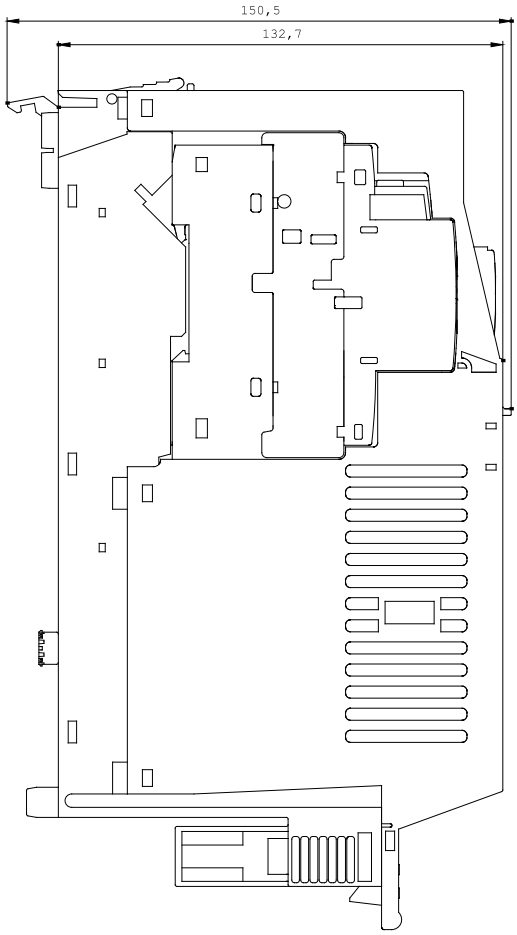
Industry Mall (Online ordering system)
http://www.siemens.com/industrial-controls/mall

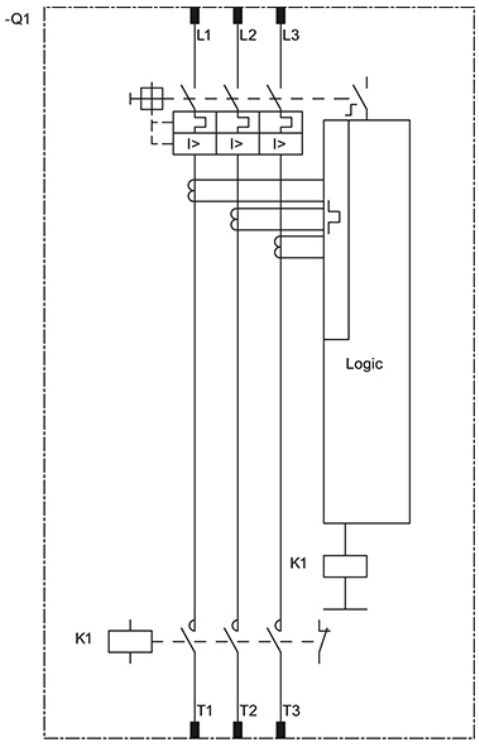
CAx-Online-Generator
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RK1301-0BB10-0AB4/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1301-0BB10-0AB4







last change: Dec 8, 2014