SIEMENS

Show actual product details

Data sheet 3RK1301-0CB10-1AB4

RS1E-X FOR ET200S HIGH FEATURE REVERSING STARTER SETTING RANGE 2.4...16A MECHANICAL SWITCHING ELECTRONIC PROTECTION AC-3/TO 7.5KW/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		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 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 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	11
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	130

Main circuit:		
Operating voltage rated value	V	400 ... 400
Adjustable pick-up value current of the current-dependent overload release	A	2.4 ... 16
Operating power		
• at AC-3 at 400 V rated value	kW	7.5
• 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	7.5
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	20.4 ... 28.8

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:		
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

Certificates/ approvals:

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

Test Certificates	other		
Typprüfbescheinigung/Werkszeugnis	Umweltbestätigung	Bestätigungen	Profibus

Further information

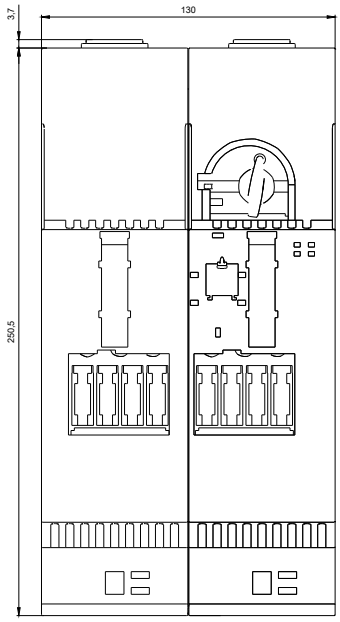
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

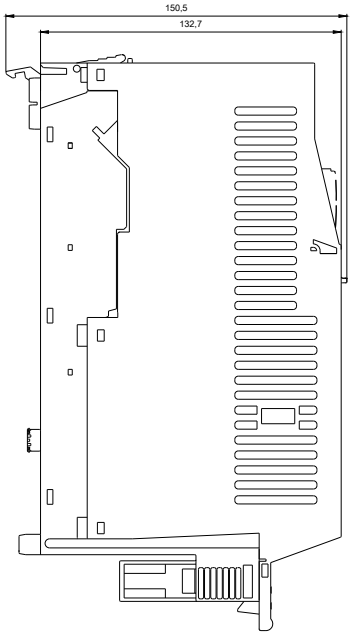
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

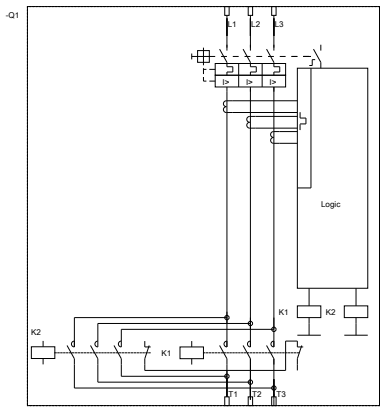
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0CB10-1AB4

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0CB10-1AB4

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0CB10-1AB4&lang=en







DI 0.0	Bereit
DI 0.1	Motor EIN
DI 0.2	Sammelfehler
DI 0.3	Sammelfehler
DI 0.4	Eingang 1
DI 0.5	Eingang 2
DI 0.6	Eingang 3
DI 0.7	Eingang 4
DI 1.0 - DI 1.5	Motorstrom
DI 1.6	Hand-Vor-Ort
DO 0.0	Motor Rechts
DO 0.1	Motor Links
DO 0.2	Bremse
DO 0.3	Trip Reset
DO 0.4	Notstart
DO 0.5	Selbsttest
DO 1.7	Quickstop sperren

DI 0.0	Ready from Host/PLC
DI 0.1	Motor ON
DI 0.2	Group error
DI 0.3	General warning
DI 0.4	Input 1
DI 0.5	Input 2
DI 0.6	Input 3
DI 0.7	Input 4
DI 1.0 - DI 1.5	Motor current
DI 1.6	Manual operation local
DO 0.0	Motor clockwise
DO 0.1	Motor ct.-clockwise
DO 0.2	Brake
DO 0.3	Trip Reset
DO 0.4	Emergency start
DO 0.5	Self-test
DO 1.7	Lock quick stop

last modified: 08/12/2016