SIEMENS

Product 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 / outlet for enine brake		Yes
Trip class		CLASS 5, 10, 15, 20
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 registance / rated value	kV	6
Impulse voltage resistance / rated value Insulation voltage / rated value	V	500
Active power loss / typical	W	11
	_	
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	2.4 16
Service power		
• at AC-3 / at 400 V / rated value	kW	7.5
• for three-phase servomotors / at 400 V / at 50 Hz		
• minimum	kW	1.1 7.5
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	20.4 28.8
Supply voltage:		
Type of / supply voltage		DC
Supply voltage / 1		
• for DC	V	24 24

+ roted value Ambient conditions: Protection class IP Ambient temperature - during operating - during operating - during operating	Supply voltage / 1 / for DC		
Protection class IP Ambient temperature - during operating - during storage - during storage - during ransport Relative humidity - during operating phase Resistance against vibration Protect of supported - PROFIBUS DP protocol - PROFIBUS DP protocol - PROFIBUS DP protocol - PROFIBUS DP protocol - PROFINET protocol - PROFINET protocol - Sintarce protocol - On the communication interface - for communication interface - for communication interface - for communication interface - for original input signals - for digital input signals - for digital input signals - digital output signals - digital output signals - 2 / for digital input signals - 2 / for digital input signals - 2 / for digital input signals - 1 / for digital input signals - 2 / for digital input signals - 1 / for digital input signals - 2 / for digital input signals	• rated value	V	20.4 28.8
Ambient temperature - during operating - during storage - during storage - during transport - during operating phase - during operating phase - during operating phase - Resistance against vibration - Resistance against vibration - Resistance against vibration - Resistance against shock - Degree of pollution - Degree of pollution - Degree of pollution - Degree of pollution - Resistance against vibration - Resistance against vibration - Resistance against vibration - Resistance against vibration - Degree of pollution - Degree of pollution - Degree of pollution - Protocol / state height over sea level / maximum - Protocol / state height over sea level / maximum - Protocol / is supported - PROFIBUS DP protocol - Vas - As interface protocol - Vas - As interface protocol - Vas - Or dight interface / PROFIBUS protocol - Vas	Ambient conditions:		
• during storage °C 40 +70 • during storage °C -40 +70 • during perasing phase °C -40 +70 Resisted spainst vibration 2g Resistance against shock 5g / 11 ms Degree of pollution 3 at 400 V, 2 at 500 V according to IEC60664 (IEC61131) Installation altitude / at a height over sea level / maximum m 2,000 mounting position wertical, horizontal Communication: Protocol / is supported • PROFIBUS DP protocol Yes • PROFIBUS DP protocol Yes • PROFIBUS DP protocol Yes • AS interface protocol Yes Design of the interface / PROFINET protocol Yes Design of the electrical connection via backplane bus • for communication transmission via backplane bus Connections: Number of sockets • for digital input signals 0 • for digital input signals 0 • for digital input sparameterizable Yes Design of the electrical connection Yes • digital outp	Protection class IP		IP20
- during storage - during transport Relative humidity - during operating phase Resistance against vibration Resistance against vibration Resistance against shock Pegree of pollution Resistance against shock Pegree of pollution Rounding position Communication: Protocol / is supported - PROFIBUS DP protocol - PROFINET protocol - AS interface protocol - AS interface protocol - PROFINET protocol - AS interface protocol - Obesign of the interface / PROFINET protocol - of the communication interface - for communication transmission Communication transmission Connections: Number of digital input signals - for digital input signals - of digital input signals - of digital input signals - of digital input signals - 1 / for digital input signals - 1 / for digital input signals - 1 / for digital input signals - 2 / to digital input signals - 1 / for digital input signals - 2 / to digital input signals - 3 / 40 / 2 / 45 / 45 / 45 / 45 / 45 / 45 / 45	Ambient temperature		
**C -40 +70 Relative humidity - during operating phase	during operating	°C	0 60
Relative humidity	during storage	°C	-40 +7 0
• during operating phase % 5 95 Resistance against vibration 2g Resistance against shock 5g / 11 ms Degree of pollution 3 at 400 V, 2 at 500 V according to IEC60664 (IEC661131) Installation altitude / at a height over sea level / maximum m 2,000 mounting position vertical, horizontal Communication: Protocol / is supported PROFIBUS DP protocol Yes PROFINET protocol Yes • AS interface protocol Yes • As interface PROFINET protocol Yes • of the communication interface via backplane bus • for communication transmission via backplane bus Connections: Number of digital inputs • for digital input signals 0 • for digital input signals 0 • for digital uput signals Ves • digital output spanelerizable Yes • digital input signals No • digital input signals using control module • digital input signals using control module <td>during transport</td> <td>°C</td> <td>-40 +70</td>	during transport	°C	-40 +7 0
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 - PROFINET protocol - AS interface protocol - AS interface protocol - of the communication interface - for communication interface - for communication transmission Connections: Number of digital inputs - for digital input signals - for digital output signals - digital output parameterizable - digital input signals - 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 (IEC61131) - 8 at 400 V, 2 at 500 V according to IEC60664 (IEC61131) - 8 at 400 V, 2 at 500 V according to IEC60664 (IEC61131) - 9 at 400 V, 2 at 500 V according to IEC60664 (IEC61131) - 9 at 400 V, 2 at 500 V according to IEC60664 (IEC61131) - 9 at 400 V, 2 at 500 V according to IEC60664 (IEC61131) - 9 at 400 V, 2 at 500 V according to IEC60664 (IEC61131) - 9 at 400 V, 2 at 500 V according to IEC6064 (IEC61131) - 9 at 400 V, 2 at 500 V according to IEC6064 (IEC61131) - 9 at 400 V, 2 at 500 V according to IEC6064 (IEC61131) - 9 at 400 V, 2 at 500 V according to IEC6064 (IEC61131) - 9 at 400 V, 2 at 500 V according to IEC6064 (IEC61131) - 9 at 400 V, 2 at 500 V according to IEC6064 (IEC61131) - 9 at 400 V, 2 at 500 V according to IEC6064 (IEC61131) - 9 at 400 V, 2 at 500 V according to IEC6064 (IEC61131) - 9 at 400 V, 2 at 500 V according to IEC6064 (IEC61131) - 9 at 400 V, 2 at 500 V according to IEC6064 (IEC61131) - 9 at 400 V, 2 at 500 V according to IEC6064 (IEC61131) - 9 at 400 V, 2 at 500 V accord	Relative humidity		
Resistance against shock Degree of pollution Sig / 11 ms	during operating phase	%	5 95
Degree of pollution 3 at 400 V, 2 at 500 V according to IEC60664 (IEC61131) Installation altitude / at a height over sea level / maximum m 2,000 mounting position vertical, horizontal Communication: Protocol / is supported	Resistance against vibration		2g
Installation altitude / at a height over sea level / maximum m 2,000	Resistance against shock		5g / 11 ms
Protocol / is supported PROFIBUS DP protocol PROFINET protocol AS interface protocol Of the communication interface Office of digital inputs Office digital outputs signals Office digital inputs parameterizable Office digital input signals Office di	Degree of pollution		
Communication: Protocol / is supported PROFIBUS DP protocol PROFINET protocol AS interface protocol No Design of the interface / PROFINET protocol via backplane bus of the communication interface of rocommunication transmission Connections: Number of digital inputs of digital inputs of digital input signals of digital output signals oligital inputs parameterizable oligital inputs parameterizable oligital input signals oligital outputs parameterizable oligital outputs parameterizable oligital outputs granses oligital input signals oligital outputs parameterizable oligital outputs parameterizable oligital input signals oligital input signals oligital input signals oligital input signals oligital outputs parameterizable oligital input signals ol	Installation altitude / at a height over sea level / maximum	m	2,000
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of the communication interface of rocommunication transmission Connections: Number of digital inputs Number of sockets of rodigital input signals of rodigital output signals of rodigital inputs parameterizable odigital outputs parameterizable odigital outputs parameterizable odigital outputs parameterizable odigital inputs parameterizable odigital inputs parameterizable odigital inputs parameterizable odigital outputs parameterizable odigital input signals odigital inpu	Design of the interface / PROFINET protocol		Yes
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Connections: Number of digital inputs 2 Number of sockets • for digital input signals • for digital output signals O Product function • digital inputs parameterizable • digital outputs parameterizable • digital outputs parameterizable • digital inputs parameterizable • logital outputs parameterizable No Design of the electrical connection • 1 / for digital input signals • 2 / for digital input signals • at the manufacturer-specific device interface plug	of the communication interface		via backplane bus
Number of digital inputs 2 Number of sockets 0 • for digital input signals 0 • for digital output signals 0 Product function Yes • digital inputs parameterizable No Design of the electrical connection using control module • 1 / for digital input signals using control module • 2 / for digital input signals using control module • at the manufacturer-specific device interface plug	for communication transmission		via backplane bus
Number of sockets • for digital input signals • for digital output signals • for digital output signals • digital inputs parameterizable • digital outputs parameterizable • digital outputs parameterizable • logital outputs parameterizable • logital outputs parameterizable No Design of the electrical connection • 1 / for digital input signals • 2 / for digital input signals • at the manufacturer-specific device interface logital input signals using control module using control module plug	Connections:		
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• for digital output signals Product function • digital inputs parameterizable • digital outputs parameterizable Pesign of the electrical connection • 1 / for digital input signals • 2 / for digital input signals • at the manufacturer-specific device interface O Ves No No Using control module using control module plug	Number of sockets		
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 digital outputs parameterizable Design of the electrical connection 1 / for digital input signals 2 / for digital input signals 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 using control module using control module at the manufacturer-specific device interface plug 	digital outputs parameterizable		No
 2 / for digital input signals at the manufacturer-specific device interface using control module 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

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

Further information:

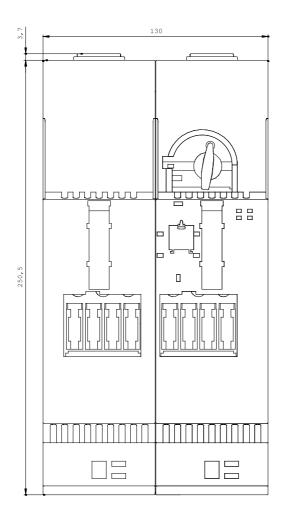
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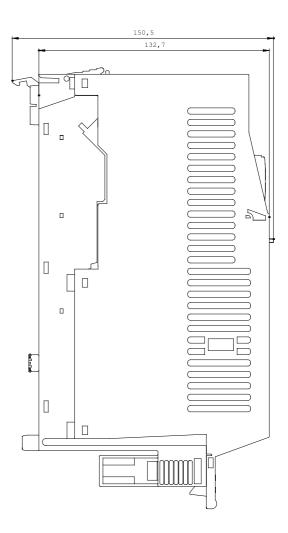
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

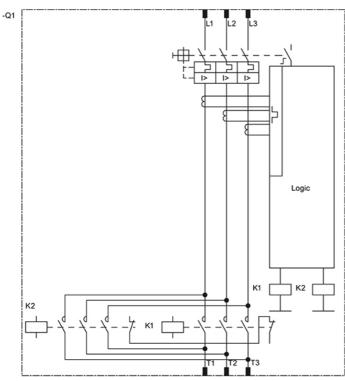
http://support.automation.siemens.com/WW/view/en/3RK1301-0CB10-1AB4/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1301-0CB10-1AB4}}$







last change: Jun 16, 2014