Product data sheet



RS1-X FOR ET 200S ELECTRO-MECH. REVERS. STARTER, EXPANDABLE SETTING RANGE 2.2...3.2A AC-3, 1.1KW/400V

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 10	
Type of assignement	1	
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 resistance / rated value	kV	6
Insulation voltage / rated value	V	500
Active power loss / typical	W	10
Maximum permissible voltage for safe disconnection / between main circuit and auxiliary circuit	V	400
Item designation		
according to DIN EN 61346-2		Q
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		A
Type of mounting		Can be plugged into terminal module
Depth	mm	120
Height	mm	265
Width	mm	90
Main circuit:		
Operating voltage		
• rated value	V	400 500
Adjustable response current		
of the current-dependent overload release	Α	2.2 3.2
Service power		
• at AC-3 / at 400 V / rated value	kW	1.1
• for three-phase servomotors / at 400 V / at 50 Hz		
• minimum	kW	1.1 1.1
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		bimetal
Mechanical operating cycles as operating time / of the main contacts / typical		100,000
Control circuit:		
Type of voltage / of the controlled 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 supply voltage		DC
Supply voltage / 1		
• for DC	V	24 24

- rated value Ambient conditions: Protection class IP Ambient temperature - during operating - during operating - during operating or communication interface of reformanciation transmission Protection also IP Ambient conditions: Protection class IP Ambient temperature - during operating or communication interface or digital input signals - for digital input signals - for digital input signals - cold reformations - cold input signals - cold reformation interface - for digital input signals - cold reformation inputs - cold reformation interface - digital input signals - cold reformation inputs - cold reformation interface - digital input signals - cold reformation interface - digital reput signals - cold reformation interface - digital repu	Supply voltage / 1 / for DC		
Protection class IP Ambient temperature - during operating - during storage - during operating phase Relative humidity - during operating phase Resistance against vibration Resistance against vibration Resistance against shock Degree of pollution Installation altitude / at a height over sea level / maximum mounting position Communication: Protocol / with be supported - PROFIBUS DP protocol - Ves Design of the electrical connection - of the communication interface - for communication interface - for communication interface - for digital input signals - for digital input signals - digital output signals - digital output signals - digital output signals - digital input signals - 1/1/or digital input signals - 2/1 for digital input signals - 2/1 for digital input signals - 1/1/or digital input signals	• rated value	V	20.4 28.8
Ambient temperature • during operating • during storage • during transport Relative humidity • during porating phase Resistance against vibration Resistance against vibration Resistance against shock Degree of pollution Installation altitude / at a height over sea level / maximum mounting position Communication: Protocol / will be supported • PROFIBUS DP protocol • PROFIBUS DP protocol • AS interface protocol • AS interface protocol • AS interface protocol • Of the communication transmission Connections Connections Connections Connections For digital input signals • of digital input signals • digital output signals • digital input signals • digital input signals • digital input signals • 1/ for digital input signals • 2/ for digital input signals	Ambient conditions:		
 during operating during storage during transport C 40 +70 during transport C 40 +70 Relative humidity during operating phase S 5 95 Resistance against vibration Resistance against shock 5g /11 ms Degree of pollution Installation altitude / at a height over sea level / maximum m 200 untitude / at a height over sea level / maximum m 200 Protocol / will be supported PROFIBUS DP protocol PROFIBUS DP protocol PROFIBUS DP protocol PROFIBUS OP protocol AS interface protocol PROFIBUS OP protocol Yes Design of the interface / PROFINET protocol of the communication interface via backplane bus Via backplane bus via backplane bus Connections: Number of digital input signals of or digital input signals of digital input signals of digital input signals of digital input signals using control module using control module using control module using control module 	Protection class IP		IP20
• during storage • during transport • during transport • during pransport • during pransport • during operating phase Resistance against vibration Resistance against shock Degree of pollution Resistance against shock Degree of pollution Resistance against shock Degree of pollution Resistance against shock Resistance against shock Resistance against shock Degree of pollution Resistance against shock Resistance against shock Degree of pollution Resistance against shock Resistance against shock Degree of pollution Resistance against vibration Resistance	Ambient temperature		
• during transport • during operating phase • during operating phase • during operating phase • Source against vibration Resistance against shock Degree of pollution Installation altitude / at a height over sea level / maximum mounting position Communication: Protocol / will be supported • PROFIBUS DP protocol • PROFIBUS DP protocol • AS interface protocol • AS interface / PROFINET protocol • Seign of the electrical connection • of the communication interface • for communication transmission Commetions: Number of digital input signals • or digital input signals • or digital input signals • or digital input signals • of digital input signals • 1 / for digital input signals • 2 / for digital input signals • 1 / for digital input signals • 2 / for digital input signals • 3 + the manufacturer-specific device interface • plug	during operating	°C	0 60
Relative humidity	during storage	°C	-40 +70
• 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 / will be supported PROFIBUS DP protocol Yes PROFINET protocol Yes AS interface protocol Yes Pesign of the interface / PROFINET protocol Yes e for communication interface via backplane bus * for communication transmission via backplane bus Connections: Number of algital inputs * for digital input signals 0 * for digital input signals 0 * for digital uputs parameterizable No * digital input signals Using control module * digital input signals using control module * 2 / for digital input signals using control module * digital input signals using control module	during transport	°C	-40 +70
Resistance against vibration Resistance against shock Degree of pollution Sal 400 V, 2 at 500 V according to IEC60664 (IEC61131) Installation altitude / at a height over sea level / maximum munting position Communication: Protocol / will be supported PROFIBUS DP protocol PROFIBUS DP protocol PROFINET protocol AS interface protocol Pesign of the electrical connection of the communication interface For communication interface For digital inputs For digital inputs signals of digital output signals digital output parameterizable digital input signals of the electrical connection I for digital input signals Obasign of the electrical connection Odigital inputs parameterizable Obasign of the electrical connection Odigital input signals Odigital output parameterizable Using control module	Relative humidity		
Resistance against shock Degree of pollution 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 Communication: Protocol / will be supported - PROFIBUS DP protocol - PROFINET protocol - AS interface protocol - AS interface PROFINET protocol - of the communication interface - for communication interface - for communication transmission Connections: Number of digital inputs - for digital inputs signals - for digital output signals - digital output parameterizable - digital output parameterizable - digital input signals - 1 / for digital input signals - 2 / for digital input signals - 3 / for digital input signals - 4 / for digital input signals - 5 / for digital input signals - 6 / for digital input signals - 7 / for digital input signals - 9 / for digita	during operating phase	%	5 95
Degree of pollution Sat 400 V, 2 at 500 V according to IEC60664 (IEC61131)	Resistance against vibration		2g
Installation altitude / at a height over sea level / maximum	Resistance against shock		5g / 11 ms
The communication is a superior in the supported and interface of the communication is a superior in the support is a superior in the superior in the support is a superior in the sup	Degree of pollution		
Communication: Protocol / will be supported PROFIBUS DP protocol PROFINET protocol AS interface protocol Posign of the interface / PROFINET protocol Ves Design of the electrical connection of the communication interface of communication transmission Connections: Number of digital inputs of digital inputs signals of or digital output signals of digital outputs parameterizable of digital inputs parameterizable No Design of the electrical connection uising control module of connections: Number of sockets of ror digital input signals of or digital input signals of or digital inputs parameterizable of digital inputs parameterizable using control module using control module using control module plug	Installation altitude / at a height over sea level / maximum	m	2,000
Protocol / will be supported PROFIBUS DP protocol PROFINET protocol PROFINET protocol No Design of the interface / PROFINET protocol Pesign of the electrical connection of the communication interface for communication transmission Promoctions: Number of digital inputs One of digital input signals of or digital output signals of digital inputs parameterizable One of digital input signals One of digital input sparameterizable One of digital input signals One of digital inp	mounting position		vertical, horizontal
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No Design of the interface / PROFINET protocol Design of the electrical connection of the communication interface	PROFIBUS DP protocol		Yes
Design of the interface / PROFINET protocol Design of the electrical connection • of the communication interface • for communication transmission Connections: Number of digital inputs • for digital input signals • for digital output signals • for digital inputs parameterizable • digital outputs parameterizable • digital outputs parameterizable • digital outputs parameterizable • digital input signals • 1 / for digital input signals • 2 / for digital input signals	PROFINET protocol		Yes
Design of the electrical connection of the communication interface for communication transmission Connections: Number of digital inputs of or digital input signals of or digital output signals of digital input sparameterizable of digital outputs parameterizable of digital output sparameterizable of digital output signals of digital input sparameterizable of digital input sparameterizable of digital outputs parameterizable of digital outputs parameterizable of digital input signals of the electrical connection of digital input signals of the electrical connection of digital input signals of the electrical connection of digital input signals of digital input si	AS interface protocol		No
of the communication interface for communication transmission Connections: Number of digital inputs Number of sockets of digital input signals for digital output signals odigital inputs parameterizable digital outputs parameterizable odigital outputs parameterizable odigital outputs inputs parameterizable odigital inputs parameterizable odigital input signals via backplane bus 0 No Nomber of digital input signals odigital input signals odigital input signals via backplane bus 0 Nomber of digital input signals via backplane bus 0 Nomber of digital input signals using control module using control module via backplane bus	Design of the interface / PROFINET protocol		Yes
via backplane bus Connections: Number of digital inputs o Number of sockets • for digital output signals • for digital input signals • digital inputs parameterizable • digital outputs parameterizable • digital outputs parameterizable • digital inputs parameterizable • digital inputs parameterizable • digital inputs parameterizable via backplane bus O No No Product function • digital inputs parameterizable No Design of the electrical connection • 1 / for digital input signals • 2 / for digital input signals • at the manufacturer-specific device interface via backplane bus O using control module plug	Design of the electrical connection		
Connections: Number of digital inputs • for digital input signals • for digital output signals • digital inputs parameterizable • digital outputs parameterizable • digital outputs parameterizable • digital outputs parameterizable • to digital outputs parameterizable • to digital 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 0 Number of sockets 0 • for digital input signals 0 • for digital output signals 0 Product function No • digital inputs parameterizable No • digital outputs 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 • No Design of the electrical connection • 1 / for digital input signals • 2 / for digital input signals • at the manufacturer-specific device interface O	Connections:		
• for digital input signals • for digital output signals • for digital output signals Product function • digital inputs parameterizable • digital outputs parameterizable • No Design of the electrical connection • 1 / for digital input signals • 2 / for digital input signals • at the manufacturer-specific device interface O Using control module using control module plug	Number of digital inputs		0
• for digital output signals Product function • digital inputs parameterizable • digital outputs parameterizable No Design of the electrical connection • 1 / for digital input signals • 2 / for digital input signals • at the manufacturer-specific device interface O No Product function No No No Plug	Number of sockets		
Product function • digital inputs parameterizable • digital outputs parameterizable No Design of the electrical connection • 1 / for digital input signals • 2 / for digital input signals • at the manufacturer-specific device interface Product function No using control module using control module plug	• for digital input signals		0
 digital inputs parameterizable digital outputs parameterizable No Design of the electrical connection 1 / for digital input signals 2 / for digital input signals at the manufacturer-specific device interface No No No using control module using control module plug 	for digital output signals		0
 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		No
 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

For use in hazardous locations

Declaration of Conformity













Test Certificates

other

Type Test
Certificates/Test
Report

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

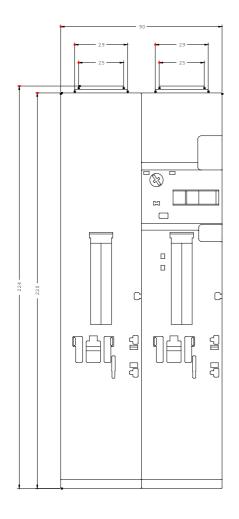
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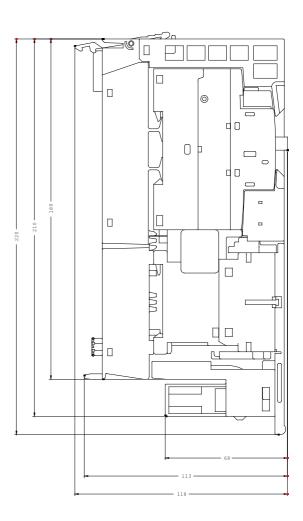
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

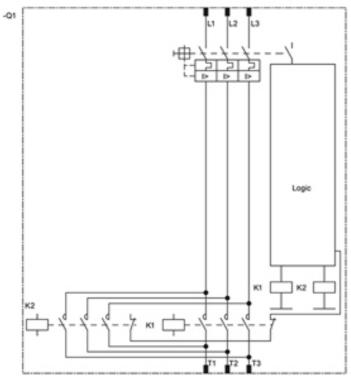
http://support.automation.siemens.com/WW/view/en/3RK1301-1DB00-1AA2/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1301-1DB00-1AA2







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