



DS1-X FOR ET 200S ELECTROMECHANICS LINE
STARTER EXPANDABLE ADJUSTABLE RANGE 4.5...6.3A
AC-3,
2.2 KW/400V FOR BRAKE CONTROL MODULE

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 / outlet for enine brake		Yes
Trip class		CLASS 10
Type of assignment		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
Reference code • according to DIN EN 61346-2 • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750		Q A
Mounting type		Can be plugged into terminal module
Depth	mm	120
Height	mm	265
Width	mm	45

Main circuit:

Operating voltage • rated value	V	400 ... 500
Adjustable response current • of the current-dependent overload release	A	4.5 ... 6.3
Service power • at AC-3 / at 400 V / rated value • for three-phase servomotors / at 400 V / at 50 Hz • minimum	kW kW	2.2 2.2 ... 2.2
Breaking capacity limit short-circuit current (I_{cu}) / 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:

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

Supply voltage / 1 / for DC		
• rated value	V	20.4 ... 28.8
Ambient conditions:		
Protection class IP		IP20
Ambient temperature		
• during operating	°C	0 ... 60
• during storage	°C	-40 ... +70
• during transport	°C	-40 ... +70
Relative humidity		
• 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 (IEC61131)
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		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		0
Number of sockets		
• for digital input signals		0
• for digital output signals		0
Product function		
• digital inputs parameterizable		No
• 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 motor outgoing line
- for main energy transmission
- for supply voltage infeed
- for supply voltage transmission
- for main current circuit

screw-type terminals
via energy bus
via backplane bus
via backplane bus
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 GHz ... 2 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

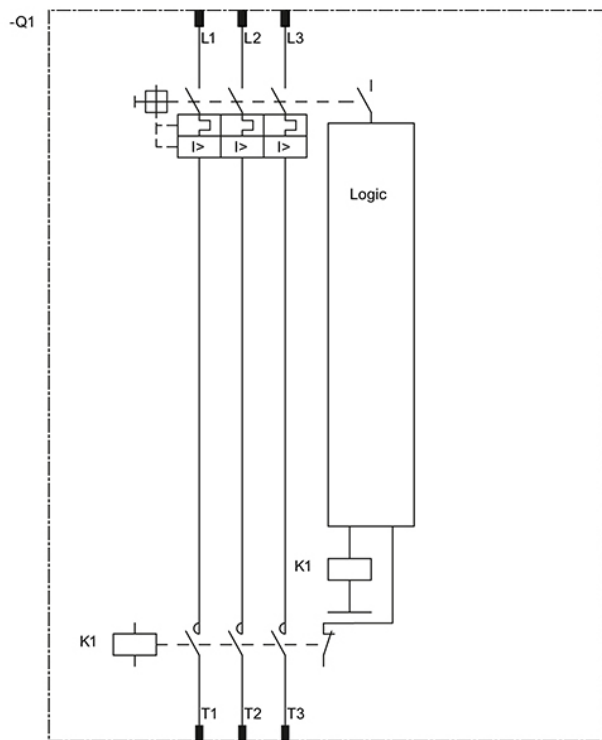
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RK1301-1GB00-0AA2/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1301-1GB00-0AA2



last change:

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