



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

Figure similar

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 10
Type of assignment		1
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

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		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 value current of the current-dependent overload release	A	4.5 ... 6.3
<b>Operating power</b>		
• at AC-3 at 400 V Rated value	kW	2.2
• for three-phase motors at 400 V at 50 Hz minimum	kW	2.2
• for three-phase motors at 400 V at 50 Hz maximum	kW	2.2
<b>Maximum short-circuit current breaking capacity (Icu) at 400 V Rated value</b>	kA	50
<b>Design of short-circuit protection</b>		circuit-breakers
<b>Number of poles for main current circuit</b>		3
<b>Type of the motor protection</b>		bimetal
<b>Mechanical service life (switching cycles) of the main contacts typical</b>		100 000

#### Control circuit/ Control:

<b>Type of voltage of the control supply voltage</b>		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:

<b>Type of voltage of the supply voltage</b>		DC
Supply voltage 1 for DC	V	24 ... 24
Supply voltage 1 for DC Rated value	V	20.4 ... 28.8

#### Ambient conditions:

<b>Protection class IP</b>		IP20
<b>Ambient temperature</b>		
• during operation	°C	0 ... 60
• during storage	°C	-40 ... +70
• during transport	°C	-40 ... +70
Relative humidity during operation	%	5 ... 95
<b>Vibration resistance</b>		2g
<b>Shock resistance</b>		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:

<b>Protocol is supported</b>		
<ul style="list-style-type: none"> <li>• PROFIBUS DP protocol</li> </ul>		Yes
<ul style="list-style-type: none"> <li>• PROFINET protocol</li> </ul>		Yes
<ul style="list-style-type: none"> <li>• AS-interface protocol</li> </ul>		No
<b>Design of the interface PROFINET protocol</b>		Yes
<b>Type of electrical connection</b>		
<ul style="list-style-type: none"> <li>• of the communication interface</li> </ul>		via backplane bus
<ul style="list-style-type: none"> <li>• for communication transmission</li> </ul>		via backplane bus

#### Connections/ Terminals:

<b>Number of digital inputs</b>		0
<b>Number of sockets</b>		
<ul style="list-style-type: none"> <li>• for digital input signals</li> </ul>		0
<ul style="list-style-type: none"> <li>• for digital output signals</li> </ul>		0
<b>Product function</b>		
<ul style="list-style-type: none"> <li>• digital inputs parameterizable</li> </ul>		No
<ul style="list-style-type: none"> <li>• digital outputs parameterizable</li> </ul>		No
<b>Type of electrical connection</b>		
<ul style="list-style-type: none"> <li>• 1 for digital input signals</li> </ul>		using control module
<ul style="list-style-type: none"> <li>• 2 for digital input signals</li> </ul>		using control module
<b>Type of electrical connection</b>		
<ul style="list-style-type: none"> <li>• at the manufacturer-specific device interface</li> </ul>		plug
<ul style="list-style-type: none"> <li>• for main energy infeed</li> </ul>		screw-type terminals
<ul style="list-style-type: none"> <li>• for load-side outgoing feeder</li> </ul>		screw-type terminals
<ul style="list-style-type: none"> <li>• for main energy transmission</li> </ul>		via energy bus
<ul style="list-style-type: none"> <li>• for supply voltage infeed</li> </ul>		via backplane bus
<ul style="list-style-type: none"> <li>• for supply voltage transmission</li> </ul>		via backplane bus
<ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>		screw-type terminals

#### Electromagnetic compatibility:

<b>Conducted interference due to burst acc. to IEC 61000-4-4</b>		2 kV on voltage supply, inputs and outputs
<b>Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5</b>		2 kV (U > 24 V DC)
<b>Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5</b>		1 kV (U > 24 V DC)
<b>Field-bound parasitic coupling acc. to IEC 61000-4-3</b>		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

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/industrymall>

Cax online generator

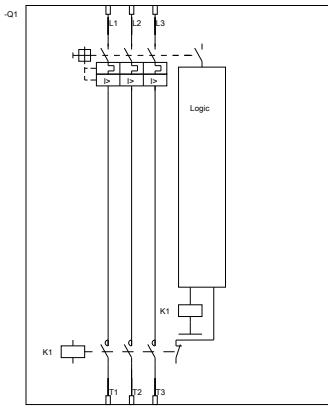
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK13011GB000AA2>

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

<http://support.automation.siemens.com/WW/view/en/3RK13011GB000AA2/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK13011GB000AA2&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK13011GB000AA2&lang=en)



last modified:

09.03.2015

DI 0.0      Bereit  
 DI 0.1      Schütz ein  
 DI 0.2      Leistungsschalter ausg.  
 DO 0.0      Motor ein  
 DO 0.2      Bremse

DI 0.0      Ready  
 DI 0.1      Contactor on  
 DI 0.2      Circuit breaker tripped  
 DO 0.0      Motor on  
 DO 0.2      Brake