

SIRIUS motor starter M200D AS-i communication: AS-Interface direct-on-line starter standard mechanical switching AC-3, 5.5 kW / 400 V 1.5 A...12.00 A electronic overload protection thermistor: thermoclick / PTC with brake contact 180 V DC 4 DI / 1 DO AS-i Han Q4/2 - Han Q8/0 with manual on-site operation and keyswitch

<b>product brand name</b>	SIRIUS
<b>product designation</b>	Motor starters
<b>design of the product</b>	direct starter
<b>product type designation</b>	M200D
<b>product function</b>	
• on-site operation	Yes
• control circuit interface to parallel wiring	No
<b>insulation voltage rated value</b>	500 V
<b>degree of pollution</b>	3
<b>surge voltage resistance rated value</b>	6 000 V
<b>maximum permissible voltage for protective separation</b>	
• between main and auxiliary circuit	400 V
• between control and auxiliary circuit	24 V
<b>shock resistance</b>	12 g / 11 ms
<b>vibration resistance</b>	7 mm / 2 g
mechanical service life (operating cycles) of the main contacts typical	10 000 000
<b>type of coordination</b>	1
<b>Substance Prohibition (day/month/year)</b>	07/01/2006
<b>SVHC substance name</b>	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1
<b>Net Weight</b>	3.565 kg
<b>product function</b>	
• direct start	Yes
• reverse starting	No
<b>product component motor brake output</b>	Yes
<b>product feature</b>	
• brake control with 230 V AC	No
• brake control with 400 V AC	No
• brake control with 24 V DC	No
• brake control with 180 V DC	Yes
• brake control with 500 V DC	No
<b>product extension braking module for brake control</b>	No
<b>product function short circuit protection</b>	Yes
<b>design of short-circuit protection</b>	circuit-breakers
<b>maximum short-circuit current breaking capacity (Icu)</b>	
• at 400 V rated value	50 000 A
• at 500 V rated value	50 000 A
EMC emitted interference according to IEC 60947-1	CISPR11, ambience A (industrial sector)
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3, ambience A (industrial sector)
<b>conducted interference</b>	
• due to burst according to IEC 61000-4-4	2 kV network connection / 1 kV control connection
• due to conductor-earth surge according to IEC 61000-4-5	2 kV
• due to conductor-conductor surge according to IEC 61000-4-5	1 kV

Safety related data	
<b>proportion of dangerous failures</b>	
• with low demand rate according to SN 31920	50 %
• with high demand rate according to SN 31920	75 %
<b>B10 value with high demand rate according to SN 31920</b>	1 000 000
<b>failure rate [FIT] with low demand rate according to SN 31920</b>	100 FIT
IEC 61508	
T1 value for proof test interval or service life according to IEC 61508	20 a
Electrical Safety	
<b>touch protection against electrical shock</b>	finger-safe
Main circuit	
<b>number of poles for main current circuit</b>	3
<b>design of the switching contact</b>	electromechanical
<b>adjustable current response value current of the current-dependent overload release</b>	1.5 ... 12 A
<b>type of the motor protection</b>	full motor protection
operating voltage rated value	200 ... 440 V
<b>operational current</b>	
• at AC at 400 V rated value	12 A
• at AC-3 at 400 V rated value	12 A
<b>operating power</b>	
• at AC-3	
— at 400 V rated value	5.5 kW
— at 500 V rated value	5 500 W
• at AC-3e	
— at 400 V rated value	6 kW
— at 500 V rated value	5.5 kW
<b>product function</b>	
• digital inputs parameterizable	Yes
• digital outputs parameterizable	Yes
<b>number of digital inputs</b>	4
<b>number of sockets</b>	
• for digital output signals	1
• for digital input signals	4
<b>number of digital outputs</b>	1
Supply voltage	
<b>type of voltage of the supply voltage</b>	DC
<b>supply voltage 1 at DC</b>	24 V
<b>supply voltage 1 at DC rated value</b>	30 V
• minimum permissible	26.5 V
• maximum permissible	31.6 V
Control circuit/ Control	
<b>type of voltage of the control supply voltage</b>	DC
<b>control supply voltage at DC rated value</b>	20.4 ... 28.8 V
<b>control supply voltage 1 at DC rated value</b>	24 V
<b>control supply voltage 1 at DC rated value</b>	20.4 ... 28.8 V
<b>control supply voltage 1 at DC</b>	20.4 ... 28.8 V
<b>control current at DC</b>	
• in standby mode of operation	100 mA
• during operation	0.6 A
<b>power loss [W] in auxiliary and control circuit</b>	
• in switching state OFF with bypass circuit	2.0736 W
• in switching state ON with bypass circuit	4.1184 W
Response times	
<b>ON-delay time</b>	85 ms
<b>OFF-delay time</b>	65 ms
<b>mounting position</b>	vertical, horizontal, flat

<b>mounting position recommended</b>	horizontal
<b>fastening method</b>	screw fixing
<b>height</b>	215 mm
<b>width</b>	294 mm
<b>depth</b>	159 mm
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
<b>ambient temperature</b>	
• during operation	-25 ... +55 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
relative humidity during operation	10 ... 95 %
<b>protocol is supported</b>	
• PROFIBUS DP protocol	No
• PROFINET protocol	No
<b>design of the interface</b>	
• AS-Interface protocol	Yes
• PROFINET protocol	No
• PROFIBUS DP protocol	No
<b>product function bus communication</b>	Yes
protocol is supported AS-Interface protocol	Yes
product function control circuit interface with IO link	No
type of electrical connection of the communication interface	M12 plug
<b>type of electrical connection</b>	
• for main current circuit	plug according to ISO 23570, HAN Q4/2
• for auxiliary and control circuit	connector
<b>type of electrical connection</b>	
• 1 for digital input signals	M12 socket
• 1 for digital output signals	M12 socket
• 2 for digital input signals	M12 socket
• 3 for digital input signals	M12 socket
• 4 for digital input signals	M12 socket
<b>type of electrical connection</b>	
• at the manufacturer-specific device interface	optical interface
• for device addressing	M12 plug
• for supply voltage line-side	M12 plug
full-load current (FLA) for 3-phase AC motor at 480 V rated value	11 A
<b>yielded mechanical performance [hp]</b>	
• for 3-phase AC motor	
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp
operating voltage at AC at 60 Hz according to CSA and UL rated value	600 V

#### Approvals Certificates

<b>General Product Approval</b>	EMV
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<b>Test Certificates</b>	<b>other</b>	<b>Dangerous goods</b>	<b>Environment</b>	<b>Industrial Communication</b>
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[Type Test Certificates/Test Report](#)

[Confirmation](#)



[Transport Information](#)

[Environmental Confirmations](#)



## Further information

### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

### Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1325-6LS41-2AA5>

### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1325-6LS41-2AA5>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1325-6LS41-2AA5>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1325-6LS41-2AA5&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1325-6LS41-2AA5&lang=en)

### Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)

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last modified:

4/4/2026 