



Figure similar

DSS1E-X for ET200S High Feature direct soft starter Setting range 0.3...3 A  
Mechanical switching Electronic protection AC-3, up to 1.1 kW / 400 V expandable  
for Brake control module 2DI module Motor starter ES Circuit breaker signaling  
parameterizable

<b>product brand name</b>	SIMATIC
<b>product designation</b>	Motor starters
<b>design of the product</b>	direct starter
<b>product type designation</b>	ET 200S
<b>General technical data</b>	
<b>product function on-site operation</b>	Yes
<b>insulation voltage rated value</b>	500 V
<b>degree of pollution</b>	3 at 400 V, 2 at 500 V according to IEC60664 (IEC61131)
<b>surge voltage resistance rated value</b>	6 kV
maximum permissible voltage for protective separation between main and auxiliary circuit	400 V
<b>shock resistance</b>	5 g / 11 ms
<b>vibration resistance</b>	2 g
<b>type of coordination</b>	2
<b>reference code according to IEC 81346-2</b>	Q
<b>Substance Prohibitance (day/month/year)</b>	10/26/2016
<b>SVHC substance name</b>	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
<b>Net Weight</b>	1.137 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 24 V DC	No
• brake control with 180 V DC	No
• brake control with 500 V DC	No
<b>product extension braking module for brake control</b>	Yes
<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 kA
<b>Electromagnetic compatibility</b>	
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>	

<ul style="list-style-type: none"> <li>• due to burst according to IEC 61000-4-4</li> <li>• due to conductor-earth surge according to IEC 61000-4-5</li> <li>• due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	2 kV on voltage supply, inputs and outputs 2 kV (U > 24 V DC) 1 kV (U > 24 V DC)
<b>field-based interference according 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
<b>Safety related data</b>	
<b>proportion of dangerous failures</b>	
<ul style="list-style-type: none"> <li>• with low demand rate according to SN 31920</li> <li>• with high demand rate according to SN 31920</li> </ul>	50 % 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
<b>IEC 61508</b>	
T1 value for proof test interval or service life according to IEC 61508	20 a
<b>Electrical Safety</b>	
<b>protection class IP on the front according to IEC 60529</b>	IP20
<b>touch protection on the front according to IEC 60529</b>	finger-safe
<b>Main circuit</b>	
<b>number of poles for main current circuit</b>	3
<b>design of the switching contact</b>	solid-state
<b>adjustable current response value current of the current-dependent overload release</b>	0.3 ... 3 A
<b>type of the motor protection</b>	solid-state
operating voltage rated value	200 ... 400 V
<b>operating frequency 1 rated value</b>	50 Hz
<b>operating frequency 2 rated value</b>	60 Hz
<b>relative positive tolerance of the operating frequency</b>	10 %
<b>relative negative tolerance of the operating frequency</b>	10 %
operating range relative to the operating voltage at AC at 50 Hz	200 ... 440 V
operating power at AC-3 at 400 V rated value	1.1 kW
operating power for 3-phase motors at 400 V at 50 Hz	0.1 ... 1.1 kW
<b>Inputs/ Outputs</b>	
<b>product function</b>	
<ul style="list-style-type: none"> <li>• digital inputs parameterizable</li> <li>• digital outputs parameterizable</li> </ul>	Yes No
<b>number of digital inputs</b>	2
<b>number of sockets</b>	
<ul style="list-style-type: none"> <li>• for digital output signals</li> <li>• for digital input signals</li> </ul>	0 0
<b>Supply voltage</b>	
<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>	
<ul style="list-style-type: none"> <li>• minimum permissible</li> <li>• maximum permissible</li> </ul>	20.4 V 28.8 V
<b>Control circuit/ Control</b>	
<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>	20.4 ... 28.8 V
<b>control supply voltage 1 at DC</b>	24 V
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	vertical, horizontal
<b>fastening method</b>	pluggable on terminal module
<b>height</b>	290 mm
<b>width</b>	65 mm
<b>depth</b>	150 mm
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
<b>ambient temperature</b>	

• during operation	0 ... 60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
relative humidity during operation	5 ... 95 %

### Communication/ Protocol

<b>protocol is supported</b>	
• PROFIBUS DP protocol	Yes
• PROFINET protocol	Yes
design of the interface PROFINET protocol	Yes
<b>product function bus communication</b>	Yes
protocol is supported AS-Interface protocol	No
<b>product function</b>	
• supports PROFienergy measured values	No
• supports PROFienergy shutdown	No
<b>address space memory of address range</b>	
• of the inputs	2 byte
• of the outputs	2 byte
<b>type of electrical connection</b>	
• of the communication interface	via backplane bus
• for communication transmission	via backplane bus

### Connections/ Terminals

type of electrical connection for main current circuit	screw-type terminals
<b>type of electrical connection</b>	
• 1 for digital input signals	using control module
• 2 for digital input signals	using control module
<b>type of electrical connection</b>	
• at the manufacturer-specific device interface	plug
• for main energy infeed	screw-type terminals
• for load-side outgoing feeder	Screw-type terminals
• for main energy transmission	via energy bus
• for supply voltage line-side	via backplane bus
• for supply voltage transmission	via backplane bus

### UL/CSA ratings

operating voltage at AC at 60 Hz according to CSA and UL rated value	480 V
--	-------

### Approvals Certificates

General Product Approval	EMV
--------------------------	-----



### Test Certificates

<a href="#">Type Test Certificates/Test Report</a>	<a href="#">Confirmation</a>		<a href="#">Environmental Confirmations</a>
--	------------------------------	---	---

### 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=3RK1301-0AB20-0AA4>  
Cax online generator  
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0AB20-0AA4>

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

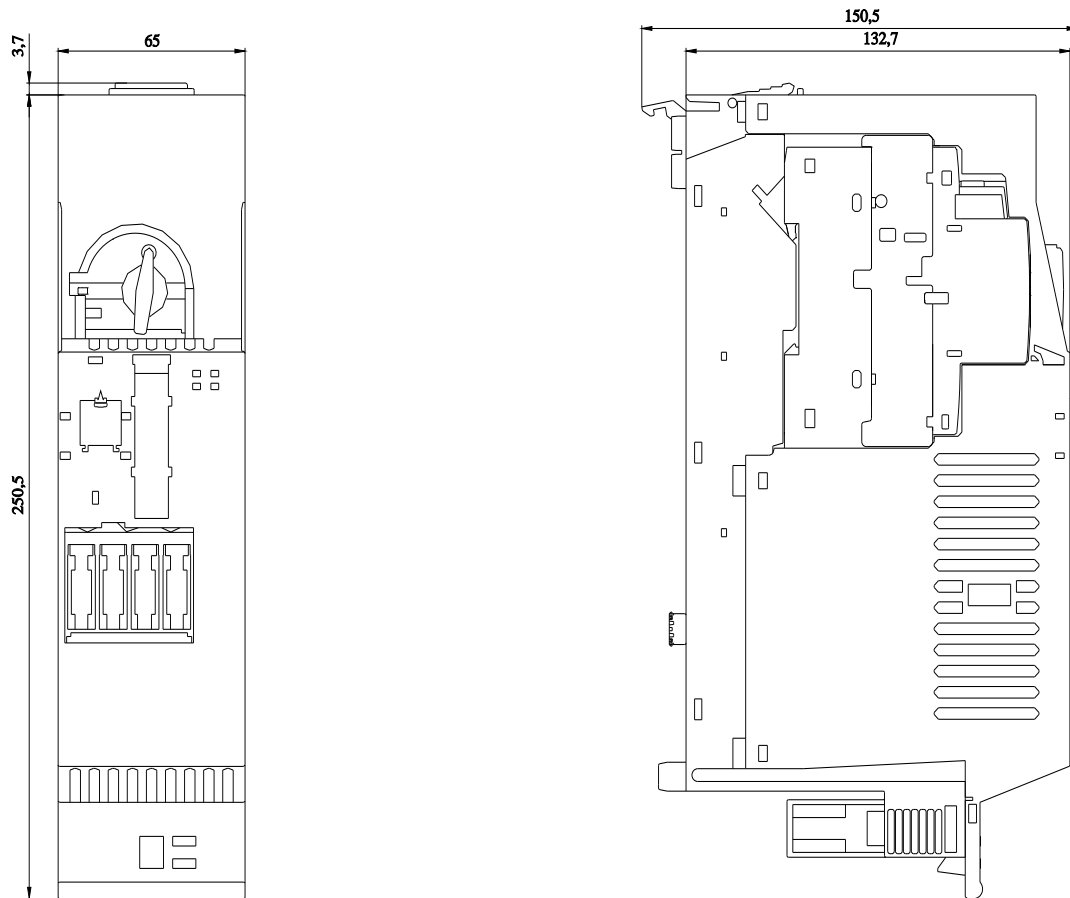
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0AB20-0AA4>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1301-0AB20-0AA4&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0AB20-0AA4&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='HAUPT'></mmp_prod_no>)



last modified:

4/4/2026 