



Direct-on-line starter High Feature; Electronic switching; Electronic overload protection up to 0.25 kW / 400 V; Adjustment range 0.3 .. 1 A; PROFIenergy; Option: 3DI/LC module

<b>product brand name</b>	SIMATIC
<b>product category</b>	Motor starter
<b>product designation</b>	Direct-on-line starter
<b>product type designation</b>	ET 200SP
<b>General technical data</b>	
<b>equipment version according to IEC 60947-4-2</b>	3
<b>product function</b>	Direct-on-line starter
• on-site operation	Yes
• intrinsic device protection	Yes
• remote firmware update	Yes
• for power supply reverse polarity protection	Yes
<b>power loss [W] for rated value of the current</b>	
• at AC in hot operating state per pole	0 W
<b>insulation voltage rated value</b>	500 V
<b>degree of pollution</b>	2
<b>overvoltage category</b>	III
<b>surge voltage resistance rated value</b>	6 kV
<b>maximum permissible voltage for protective separation</b>	
• between main and auxiliary circuit	500 V
consumed current maximum	140 mA
<b>shock resistance</b>	6 g / 11 ms
<b>vibration resistance</b>	15 mm to 6 Hz; 2 g to 500 Hz
<b>operating frequency maximum</b>	1 1/s
mechanical service life (operating cycles) of the main contacts typical	30 000 000
<b>type of coordination</b>	1
<b>utilization category</b>	
• according to IEC 60947-4-2	AC-53a: 1 A: (8-0,7: 70-32)
• according to IEC 60947-4-3	AC-51: 1 A: (1,2-10: 50-360)
<b>reference code according to IEC 81346-2</b>	Q
<b>Substance Prohibitance (day/month/year)</b>	04/15/2016
<b>SVHC substance name</b>	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1
<b>Net Weight</b>	0.412 kg
<b>product function</b>	
• direct start	Yes
• reverse starting	No
<b>product component motor brake output</b>	No
<b>product function short circuit protection</b>	Yes

<b>design of short-circuit protection</b>	fuse
<b>maximum short-circuit current breaking capacity (Icu)</b>	
• at 400 V rated value	55 kA
• at 500 V rated value	55 kA
• at 500 V according to UL 60947 rated value	100 kA
<b>maximum short-circuit current breaking capacity (Icu) in the IT network</b>	
• at 400 V rated value	55 kA
• at 500 V rated value	55 kA
<b>Electromagnetic compatibility</b>	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	Class A
<b>conducted interference</b>	
• due to burst according to IEC 61000-4-4	2 kV
• 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
• due to high-frequency radiation according to IEC 61000-4-6	Class A
<b>field-based interference according to IEC 61000-4-3</b>	10 V/m
<b>electrostatic discharge according to IEC 61000-4-2</b>	8 kV air discharge
<b>conducted HF interference emissions according to CISPR11</b>	Class A for industrial environment
<b>field-bound HF interference emission according to CISPR11</b>	Class A for industrial environment
<b>Safety related data</b>	
<b>MTBF</b>	48 a
<b>Electrical Safety</b>	
<b>touch protection against electrical shock</b>	finger-safe
<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>	Hybrid
<b>adjustable current response value current of the current-dependent overload release</b>	0.3 ... 1 A
<b>minimum load [%]</b>	50 %; from smallest adjustable rated current
<b>type of the motor protection</b>	solid-state
operating voltage rated value	48 ... 500 V
<b>relative symmetrical tolerance of the operating voltage</b>	10 %
<b>operating frequency 1 rated value</b>	50 Hz
<b>operating frequency 2 rated value</b>	60 Hz
<b>relative symmetrical tolerance of the operating frequency</b>	5 %
<b>relative positive tolerance of the operating frequency</b>	5 %
<b>relative negative tolerance of the operating frequency</b>	5 %
operational current at AC at 400 V rated value	1 A
<b>ampacity when starting maximum</b>	10 A
operating power for 3-phase motors at 400 V at 50 Hz	0.09 ... 0.25 kW
<b>Inputs/ Outputs</b>	
<b>number of digital inputs</b>	4
• note	4 via 3DI/LC module
<b>address space memory of address range</b>	
• of the inputs	4 byte
• of the outputs	2 byte
<b>Supply voltage</b>	
<b>type of voltage of the supply voltage</b>	DC
<b>supply voltage 1 at DC rated value</b>	
• minimum permissible	20.4 V
• maximum permissible	28.8 V
<b>supply voltage at DC rated value</b>	24 V
<b>consumed current for rated value of supply voltage</b>	

<ul style="list-style-type: none"> <li>• in standby mode of operation</li> </ul>	50 mA
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	50 mA
<ul style="list-style-type: none"> <li>• at switching on of motor</li> </ul>	140 mA
<b>power loss [W] for rated value of supply voltage</b>	
<ul style="list-style-type: none"> <li>• in switching state OFF with bypass circuit</li> </ul>	1.2 W
<ul style="list-style-type: none"> <li>• in switching state ON with bypass circuit</li> </ul>	3.4 W
inrush current peak at 24 V	25 A; Observe the manual for group configuration
duration of inrush current peak at 24 V	0.14 ms
<b>Response times</b>	
<b>ON-delay time</b>	20 ms
<b>OFF-delay time</b>	35 ... 50 ms
<b>Power Electronics</b>	
<b>operational current</b>	
<ul style="list-style-type: none"> <li>• at 40 °C rated value</li> </ul>	1 A
<ul style="list-style-type: none"> <li>• at 50 °C rated value</li> </ul>	1 A
<ul style="list-style-type: none"> <li>• at 55 °C rated value</li> </ul>	1 A
<ul style="list-style-type: none"> <li>• at 60 °C rated value</li> </ul>	1 A
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	Vertical, horizontal (observe derating)
<b>fastening method</b>	pluggable in BaseUnit
<b>height</b>	142 mm
<b>width</b>	30 mm
<b>depth</b>	150 mm
required spacing with side-by-side mounting	
<ul style="list-style-type: none"> <li>• upwards</li> </ul>	50 mm
<ul style="list-style-type: none"> <li>• downwards</li> </ul>	50 mm
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	4 000 m
<b>ambient temperature</b>	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-25 ... +60 °C; For derating see manual
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-40 ... +70 °C
environmental category during operation according to IEC 60721	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices)
relative humidity during operation	10 ... 95 %
air pressure according to SN 31205	900 ... 1 060 hPa
<b>Communication/ Protocol</b>	
<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
<b>product function bus communication</b>	Yes
protocol is supported AS-Interface protocol	No
<b>product function</b>	
<ul style="list-style-type: none"> <li>• supports PROFenergy measured values</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• supports PROFenergy shutdown</li> </ul>	Yes
type of electrical connection of the communication interface	Plug contact to Base Unit
<b>Connections/ Terminals</b>	
<b>type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• 1 for digital input signals</li> </ul>	Pluggable module - accessory
<b>type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• for main energy infeed</li> </ul>	Plug contact to Base Unit
<ul style="list-style-type: none"> <li>• for load-side outgoing feeder</li> </ul>	Plug contact to Base Unit
<ul style="list-style-type: none"> <li>• for supply voltage line-side</li> </ul>	Plug contact to Base Unit
<b>wire length for motor unshielded maximum</b>	200 m
<b>UL/CSA ratings</b>	
full-load current (FLA) for 3-phase AC motor at 480 V rated value	1 A
current with locked rotor (LRA) for 3-phase AC motor at 480 V rated value	8 A

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

480 V

### Approvals Certificates

General Product Approval

EMV

Test Certificates



[Type Test Certificates/Test Report](#)

Maritime application

other



[Confirmation](#)



Dangerous goods

Environment

Industrial Communication

[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=3RK1308-0AB00-0CP0>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0AB00-0CP0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0AB00-0CP0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1308-0AB00-0CP0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0AB00-0CP0&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=)



