



 SIMATIC ET 200SP e-Starter basic 4DI (LC) submodule

product brand name	SIMATIC
product designation	4DI (LC) submodule
design of the product	Basic
product type designation	ET 200SP

Product Function

product function	
• ramp-up (soft starting)	No
• ramp-down (soft stop)	No
• Soft Torque	No
• Safe Torque Off (STO) via F-DI	No
• Safe Torque Off (STO) via PROFIsafe	No
• current limitation	No
• creep speed in both directions of rotation	No
• pump ramp down	No
• min/max pointer	Yes
• trace function	No
• stationary state detection	No
• switching of capacitive loads	No
• Smart Start	Yes
• torque control	No
• reversing brakes	No
• detection of direction of rotation	Yes

General technical data

product function	
• on-site operation	Yes
• for power supply reverse polarity protection	Yes
• for sensor supply short-circuit protection	Yes
• with 24 V sensor supply short-circuit protection	Yes
diagnostics function short-circuit detection	Yes
display version for diagnostic function: Status display transmission channel channel status LED	Yes
• note	Green LED
shock resistance	6g, 11 ms (3 Schocks) / 9g, 6 ms (1000 Schocks)
vibration resistance	f = 5 ... 8.5 Hz, dmax = 3.5 mm / 8.5 ... 26.9 Hz, amax = 10 m/s <sup>2</sup> / f = 26.9 ... 60.1 Hz, dmax = 0.35 mm / f = 60.1 ... 500 Hz, amax = 50 m/s <sup>2</sup> / 10 cycles
Substance Prohibitance (Date)	10/01/2024
SVHC substance name	Lead - 7439-92-1
Weight	0.043 kg

<b>Short-circuit protection</b>	
<b>product function short circuit protection</b>	Yes
<b>Protective and monitoring functions</b>	
product function active power monitoring	No
<b>Safety related data</b>	
product function suitable for safety function	No
<b>suitability for use</b>	
• safety-related switching on	No
• safety-related switching OFF	No
<b>test wear-related service life necessary</b>	No
<b>stop category according to IEC 60204-1</b>	0
<b>Electrical Safety</b>	
<b>protection class IP on the front according to IEC 60529</b>	IP20
<b>ATEX</b>	
<b>certificate of suitability</b>	
• ATEX	No
• IECEx	No
• UKEX	No
<b>Inputs/ Outputs</b>	
<b>product function</b>	
• digital inputs parameterizable	Yes
• digital outputs parameterizable	No
• at the standard inputs at rated input voltage parameterizable input delay time	No
<b>input delay time at the standard inputs</b>	
• for signal <0> to <1> at rated input voltage	6 ... 10 ms
• for signal <1> to <0> at rated input voltage	6 ... 10 ms
<b>number of digital inputs</b>	4
digital input version type 1 acc. to IEC 61131	Yes
<b>operating voltage as input voltage minimum permissible</b>	0 V
<b>operating voltage as input voltage maximum permissible</b>	30 V
<b>value range of the input voltage at digital input for signal &lt;0&gt; detection</b>	-30 ... +5 V
<b>value range of the input voltage at digital input for signal &lt;1&gt; detection</b>	+15 ... +30 V
input voltage at digital input at DC rated value	24 V
input current at digital input for signal <1> typical	9 mA
<b>output voltage</b>	19.4 ... 28.8 V
<b>type of output voltage for sensor supply</b>	DC
<b>output voltage for sensor supply minimum</b>	19.2 V
<b>output current for sensor supply maximum</b>	0.1 A
<b>output current for sensor supply at 60 °C maximum</b>	0.1 A
<b>wire length of sensor maximum</b>	30 m
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	vertical, horizontal
<b>fastening method</b>	can be plugged onto e-starters
<b>height</b>	54.5 mm
<b>width</b>	30 mm
<b>depth</b>	42.3 mm
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	4 000 m
<b>ambient temperature</b>	
• during operation	-25 ... +40 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
relative humidity during operation	10 ... 95 %
air pressure according to SN 31205	900 ... 1 060 hPa
<b>Environmental footprint</b>	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	15.5 kg
global warming potential [CO2 eq] during manufacturing	12.7 kg

global warming potential [CO2 eq] during operation	41 kg	
global warming potential [CO2 eq] after end of life	-18 kg	
Siemens Eco Profile (SEP)	Siemens EcoTech	
Communication/ Protocol		
protocol is supported PROFIsafe protocol	No	
Connections/ Terminals		
type of electrical connection for auxiliary and control circuit	spring-loaded terminals (push-in)	
type of connecting terminal	push-in terminal	
connectable conductor cross-section for auxiliary contacts		
• solid or stranded	0.2 ... 1.5 mm²	
• finely stranded with core end processing	0.25 ... 1.5 mm²	
• finely stranded without core end processing	0.2 ... 1.5 mm²	
AWG number as coded connectable conductor cross section for auxiliary contacts	24 ... 16	
shape of the screwdriver tip	Slot	
size of the screwdriver tip	Standard screwdriver 0.6 mm x 3.5 mm	
Approvals Certificates		
General Product Approval	other	Environment



[Confirmation](#)



#### Environment



#### Further information

Information on the packaging

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

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=3RD1000-1MB00-0BP0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RD1000-1MB00-0BP0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RD1000-1MB00-0BP0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RD1000-1MB00-0BP0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RD1000-1MB00-0BP0&lang=en)



