



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

Product Function

product function	
<ul style="list-style-type: none"> • ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • Safe Torque Off (STO) via F-DI • Safe Torque Off (STO) via PROFIsafe • current limitation • creep speed in both directions of rotation • pump ramp down • min/max pointer • trace function • stationary state detection • switching of capacitive loads • Smart Start • torque control • reversing brakes • detection of direction of rotation 	<ul style="list-style-type: none"> No No No No No No No No Yes No No No Yes No No Yes

General technical data

product function	
<ul style="list-style-type: none"> • on-site operation • for power supply reverse polarity protection • for sensor supply short-circuit protection • with 24 V sensor supply short-circuit protection 	<ul style="list-style-type: none"> Yes Yes Yes Yes
diagnostics function short-circuit detection	Yes
display version for diagnostic function: Status display transmission channel channel status LED	Yes
<ul style="list-style-type: none"> • 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 ² / f = 26.9 ... 60.1 Hz, dmax = 0.35 mm / f = 60.1 ... 500 Hz, amax = 50 m/s ² / 10 cycles
Substance Prohibitance (Date)	10/01/2024
SVHC substance name	Lead - 7439-92-1
Weight	0.043 kg

Short-circuit protection	
product function short circuit protection	Yes
Protective and monitoring functions	
product function active power monitoring	No
Safety related data	
product function suitable for safety function	No
suitability for use	
• safety-related switching on	No
• safety-related switching OFF	No
test wear-related service life necessary	No
stop category according to IEC 60204-1	0
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
ATEX	
certificate of suitability	
• ATEX	No
• IECEx	No
• UKEX	No
Inputs/ Outputs	
product function	
• digital inputs parameterizable	Yes
• digital outputs parameterizable	No
• at the standard inputs at rated input voltage parameterizable input delay time	No
input delay time at the standard inputs	
• for signal <0> to <1> at rated input voltage	6 ... 10 ms
• for signal <1> to <0> at rated input voltage	6 ... 10 ms
number of digital inputs	4
digital input version type 1 acc. to IEC 61131	Yes
operating voltage as input voltage minimum permissible	0 V
operating voltage as input voltage maximum permissible	30 V
value range of the input voltage at digital input for signal <0> detection	-30 ... +5 V
value range of the input voltage at digital input for signal <1> detection	+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
output voltage	19.4 ... 28.8 V
type of output voltage for sensor supply	DC
output voltage for sensor supply minimum	19.2 V
output current for sensor supply maximum	0.1 A
output current for sensor supply at 60 °C maximum	0.1 A
wire length of sensor maximum	30 m
Installation/ mounting/ dimensions	
mounting position	vertical, horizontal
fastening method	can be plugged onto e-starters
height	54.5 mm
width	30 mm
depth	42.3 mm
Ambient conditions	
installation altitude at height above sea level maximum	4 000 m
ambient temperature	
• 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
Environmental footprint	
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 PROFI-safe 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 mm ²
• finely stranded with core end processing	0.25 ... 1.5 mm ²
• finely stranded without core end processing	0.2 ... 1.5 mm ²
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	Maritime application	other
--------------------------	----------------------	-------



[Confirmation](#)

Environment

Siemens
EcoTech



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=3RD1000-1MB00-0BP0>

Cax online generator

<https://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, ...)

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RD1000-1MB00-0BP0&lang=en



