## **SIEMENS**

## **Data sheet**

product brand name

3RD1000-1MB00-0BP0



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



product designation	4DI (LC) submodule
design of the product	Basic
product type designation	ET 200SP
Product Function	
product function	
<ul><li>ramp-up (soft starting)</li></ul>	No
<ul><li>ramp-down (soft stop)</li></ul>	No
Soft Torque	No
<ul> <li>Safe Torque Off (STO) via F-DI</li> </ul>	No
<ul> <li>Safe Torque Off (STO) via PROFIsafe</li> </ul>	No
current limitation	No
<ul> <li>creep speed in both directions of rotation</li> </ul>	No
<ul> <li>pump ramp down</li> </ul>	No
<ul><li>min/max pointer</li></ul>	Yes
• trace function	No
<ul> <li>stationary state detection</li> </ul>	No
<ul> <li>switching of capacitive loads</li> </ul>	No
Smart Start	Yes
• torque control	No
<ul> <li>reversing brakes</li> </ul>	No
<ul> <li>detection of direction of rotation</li> </ul>	Yes
General technical data	
product function	
on-site operation	Yes
<ul> <li>for power supply reverse polarity protection</li> </ul>	Yes
<ul> <li>for sensor supply short-circuit protection</li> </ul>	Yes
<ul> <li>with 24 V sensor supply short-circuit protection</li> </ul>	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/s²/ f = 26.9 60.1 Hz, dmax = 0.35 mm / f = 60.1 500 Hz, amax = 50 m/s² / 10 cycles
Substance Prohibitance (Date)	10/01/2024
SVHC substance name	Lead - 7439-92-1
Weight	0.043 kg

SIMATIC

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	140	
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	
<ul> <li>at the standard inputs at rated input voltage parameterizable input delay time</li> </ul>	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	4.000	
installation altitude at height above sea level maximum	4 000 m	
ambient temperature	25 ±40 °C	
during operation     during storage	-25 +40 °C	
during storage	-40 +70 °C -40 +70 °C	
during transport  relative humidity during operation	10 95 %	
relative humidity during operation	900 1 060 hPa	
air pressure according to SN 31205 Environmental footprint	300 1 000 IIF a	
	Yes	
Environmental Product Declaration(EPD) global warming potential [CO2 eq] total	15.5 kg	
global warming potential [CO2 eq] during manufacturing	12.7 kg	
giobal warning potential [002 eq] during manufacturing	12 1/9	

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	
<ul> <li>solid or stranded</li> </ul>	0.2 1.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	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** 







Confirmation

other



Environment

## **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

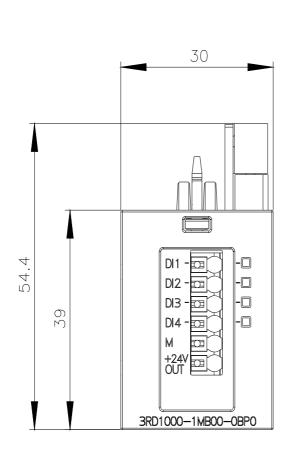
Cax online generator

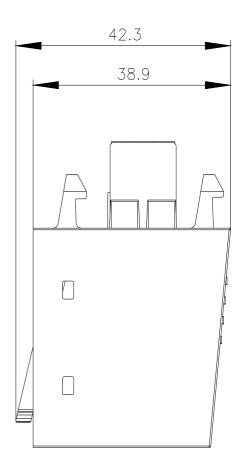
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RD1000-1MB00-0BP0

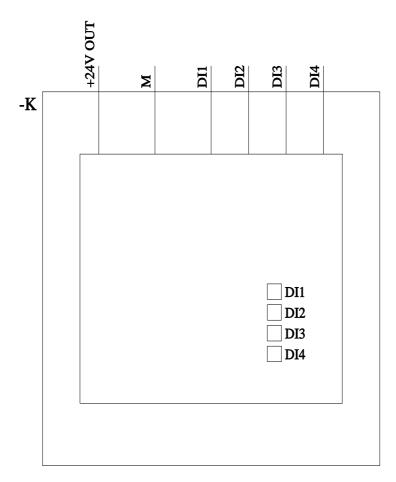
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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, ...) <a href="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</a>







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