



SIMATIC ET 200AL, DI 8x 24 V DC, 8XM8, Degree of protection IP67

General information	
Product type designation	DI 8x24VDC
HW functional status	FS03
Firmware version	V1.0.x
Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	STEP 7 V13 SP1 or higher
• STEP 7 configurable/integrated from version	From V5.5 SP4 Hotfix 3
• PROFIBUS from GSD version/GSD revision	GSD as of Revision 5
• PROFINET from GSD version/GSD revision	GSDML V2.3.1
Supply voltage	
power supply according to NEC Class 2 required	No
Load voltage 1L+	
• Rated value (DC)	24 V
• permissible range, lower limit (DC)	20.4 V
• permissible range, upper limit (DC)	28.8 V
• Reverse polarity protection	Yes; Against destruction; encoder power supply outputs applied with reversed polarity
Input current	
Current consumption (rated value)	25 mA; without load
from load voltage 1L+ (unswitched voltage)	4 A; Maximum value
from load voltage 2L+, max.	4 A; Maximum value
Encoder supply	
Number of outputs	8
24 V encoder supply	
• Short-circuit protection	Yes; per module, electronic
• Output current, max.	0.7 A; Total current of all encoders
Power loss	
Power loss, typ.	1.9 W
Digital inputs	
Number of digital inputs	8
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 55 °C, max.	8
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	-30 to +5 V
• for signal "1"	+11 to +30V

<b>Input current</b>	
• for signal "1", typ.	3.2 mA
<b>Input delay (for rated value of input voltage)</b>	
for standard inputs	
— at "0" to "1", min.	1.2 ms
— at "0" to "1", max.	4.8 ms
— at "1" to "0", min.	1.2 ms
— at "1" to "0", max.	4.8 ms
<b>Cable length</b>	
• unshielded, max.	30 m
<b>Encoder</b>	
<b>Connectable encoders</b>	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
<b>Interrupts/diagnostics/status information</b>	
<b>Alarms</b>	
• Diagnostic alarm	Yes; Parameterizable
<b>Diagnoses</b>	
• Short-circuit	Yes; Sensor supply to M; module by module
<b>Diagnostics indication LED</b>	
• Channel status display	Yes; green LED
• for module diagnostics	Yes; green/red LED
<b>Potential separation</b>	
between the load voltages	Yes
<b>Potential separation channels</b>	
• between the channels	No
• between the channels and backplane bus	Yes
• between the channels and the power supply of the electronics	No
<b>Isolation</b>	
Isolation tested with	707 V DC (type test)
<b>Degree and class of protection</b>	
IP degree of protection	IP65/67
<b>Standards, approvals, certificates</b>	
Suitable for safety-related tripping of standard modules	Yes; From FS01
<b>Highest safety class achievable for safety-related tripping of standard modules</b>	
• Performance level according to ISO 13849-1	PL d
• Category according to ISO 13849-1	Cat. 3
• SIL acc. to IEC 62061	SIL 2
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• min.	-30 °C
• max.	55 °C
<b>connection method</b>	
Design of electrical connection for the inputs and outputs	M8, 3-pole
Design of electrical connection for supply voltage	M8, 4-pole
<b>ET-Connection</b>	
• ET-Connection	M8, 4-pin, shielded
<b>Dimensions</b>	
Width	30 mm
Height	159 mm
Depth	40 mm
<b>Weights</b>	
Weight, approx.	145 g

last modified:

8/16/2023 

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [I/O Modules](#) category:*

*Click to view products by [Siemens](#) manufacturer:*

Other Similar products are found below :

[70L-OAC-L](#) [G21960000700](#) [G34960002700](#) [G88104401](#) [IDC-5B](#) [OACU](#) [C4SWOUT](#) [FC6A-T32K3](#) [SNAP-OAC5MA](#) [FC6A-N16B3](#)  
[FC6A-N32B3](#) [FC6A-T16P3](#) [G3TAOD201SDC24](#) [PB32HQ](#) [PB16T](#) [PB8](#) [PB8H](#) [C200H-OD211](#) [GT1-AD04CST](#) [GT1-DA04](#) [70GRCQ24-](#)  
[HS](#) [M-OAC5](#) [G4OAC24AMA](#) [2736505](#) [6202](#) [6402](#) [IL MOD BK DI8 DO4-PAC](#) [FC6A-J2C1](#) [FC6A-KC1C](#) [FC6A-N08A11](#) [FC6A-M24BR1](#)  
[FC6A-K4A1](#) [FC6A-T32P3](#) [9-1393028-2](#) [GP32900003700](#) [641-480-5022](#) [PB16H](#) [WISE-4050/LAN-B](#) [WISE-S614T-A](#) [ADAM-4068-C](#)  
[56475](#) [ADAM-4017+-F](#) [ADAM-4118-C](#) [AMAX-4856-B](#) [WISE-4050-B](#) [ADAM-4051-C](#) [ADAM-4053-F](#) [GT1-AD08MX](#) [TM5SDO6TBFS](#)  
[70Q3446](#)