## **Data sheet**

## 6ES7157-1AA00-0AB0



SIMATIC ET 200AL, PROFIBUS interface module IM 157-1 DP, Degree of protection IP67  $\,$ 

General information	
Product type designation	IM 157-1 DP
HW functional status	FS02
Firmware version	V1.0.x
Vendor identification (VendorID)	81A9H
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
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	From V5.5 SP4 Hotfix 3
<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	GSD as of Revision 5
Configuration control	
via dataset	Yes
Supply voltage	
power supply according to NEC Class 2 required	No
Load voltage 1L+	
<ul> <li>Rated value (DC)</li> </ul>	24 V
<ul> <li>permissible range, lower limit (DC)</li> </ul>	20.4 V
<ul> <li>permissible range, upper limit (DC)</li> </ul>	28.8 V
<ul> <li>Reverse polarity protection</li> </ul>	Yes; against destruction
Input current	
Current consumption (rated value)	50 mA
from load voltage 1L+ (unswitched voltage)	4 A; Maximum value
from load voltage 2L+, max.	4 A; Maximum value
Power loss	
Power loss, typ.	1.7 W
Address area	
Address space per station	
<ul> <li>Address space per station, max.</li> </ul>	244 byte
Interfaces	
Number of PROFIBUS interfaces	1
1. Interface	
Interface type	PROFIBUS DP
Interface types	
• RS 485	Yes
M12 port	Yes; 2x M12 B-coded
Protocols	
PROFIBUS DP slave	Yes
Interface types	
RS 485	

Transmission rate, max.	12 Mbit/s	
Protocols		
PROFIBUS DP		
Services		
<ul> <li>— SYNC capability</li> </ul>	Yes	
— FREEZE capability	Yes	
<ul> <li>Direct data exchange (slave-to-slave communication)</li> </ul>	Yes	
— DPV0	Yes	
— DPV1	Yes	
Interrupts/diagnostics/status information		
Diagnostics function	Yes	
Alarms		
Diagnostic alarm	Yes	
Diagnostics indication LED		
• RUN LED	Yes; green LED	
• ERROR LED	Yes; red LED	
MAINT LED	Yes; Yellow LED	
Connection display DP	Yes; green LED	
Potential separation		
between the load voltages	Yes	
between PROFIBUS DP and all other circuit components	Yes	
Isolation		
Isolation tested with	707 V DC (type test)	
Degree and class of protection		
IP degree of protection	IP65/67	
Standards, approvals, certificates		
Suitable for safety-related tripping of standard modules	Yes; From FS01	
Highest safety class achievable for safety-related tripping of standard modules		
<ul> <li>Performance level according to ISO 13849-1</li> </ul>	PL d	
Category according to ISO 13849-1	Cat. 3	
• SIL acc. to IEC 62061	SIL 2	
remark on safety-oriented shutdown	https://support.industry.siemens.com/cs/de/en/view/39198632	
Ambient conditions		
Ambient temperature during operation		
• min.	-30 °C	
• max.	55 °C	
connection method	110.4	
Design of electrical connection for supply voltage	M8, 4-pole	
ET-Connection	M0 4 1 11 11 1	
• ET-Connection	M8, 4-pin, shielded	
Dimensions We also	15	
Width	45 mm	
Height	159 mm	
Depth	46 mm	
Weights	044	
Weight, approx.	211 g	
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