

## Data sheet

## 6ES7157-1AA00-0AB0



SIMATIC ET 200AL, PROFIBUS interface module IM 157-1 DP, degree of protection IP67; product phase-out planned - see SIOS 109989704

General information	
Product type designation	IM 157-1 DP
HW functional status	FS02
Firmware version	V1.0.x
Vendor identification (VendorID)	81A9H
Product function	
<ul style="list-style-type: none"> <li>I&amp;M data</li> </ul>	Yes; I&M0 to I&M3
Engineering with	
<ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	STEP 7 V13 SP1 or higher
<ul style="list-style-type: none"> <li>STEP 7 configurable/integrated from version</li> </ul>	From V5.5 SP4 Hotfix 3
<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>Rated value (DC)</li> </ul>	24 V
<ul style="list-style-type: none"> <li>permissible range, lower limit (DC)</li> </ul>	20.4 V
<ul style="list-style-type: none"> <li>permissible range, upper limit (DC)</li> </ul>	28.8 V
<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>Address space per station, max.</li> </ul>	244 byte
Interfaces	
Number of PROFIBUS interfaces	1
1. Interface	
Interface type	PROFIBUS DP
Interface types	
<ul style="list-style-type: none"> <li>RS 485</li> </ul>	Yes
<ul style="list-style-type: none"> <li>M12 port</li> </ul>	Yes; 2x M12 B-coded
Protocols	
<ul style="list-style-type: none"> <li>PROFIBUS DP device</li> </ul>	Yes

Interface types			
RS 485			
• Transmission rate, max.	12 Mbit/s		
Protocols			
Supports protocol for PROFINET IO	No		
PROFIsafe	No		
PROFIBUS	Yes		
EtherNet/IP	No		
PROFIBUS DP			
Services			
— SYNC capability	Yes		
— FREEZE capability	Yes		
— Direct data exchange (slave-to-slave communication)	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			
• Performance level according to ISO 13849-1	PL d		
• Category according to ISO 13849-1	Cat. 3		
• SIL acc. to IEC 62061	SIL 2		
• remark on safety-oriented shutdown	<a href="https://support.industry.siemens.com/cs/de/en/view/39198632">https://support.industry.siemens.com/cs/de/en/view/39198632</a>		
Ambient conditions			
Ambient temperature during operation			
• min.	-30 °C		
• max.	55 °C		
Connection method			
Design of electrical connection for supply voltage	M8, 4-pole		
ET-Connection			
• ET-Connection	M8, 4-pin, shielded		
Dimensions			
Width	45 mm		
Height	159 mm		
Depth	46 mm		
Weights			
Weight, approx.	211 g		
Classifications			
		<b>Version</b>	<b>Classification</b>
	eClass	14	27-24-26-08
	eClass	12	27-24-26-08
	eClass	9.1	27-24-26-08

eClass	9	27-24-26-08
eClass	8	27-24-26-08
eClass	7.1	27-24-26-08
eClass	6	27-24-26-08
ETIM	10	EC001604
ETIM	9	EC001604
ETIM	8	EC001604
ETIM	7	EC001604
IDEA	4	3564
UNSPSC	15	32-15-17-05

**Approvals / Certificates**

**General Product Approval**

[Miscellaneous](#)

[Manufacturer Declaration](#)



**General Product Approval**



[China RoHS](#)

[Manufacturer Declaration](#)



**EMV Maritime application**



[NK / Nippon Kaiji Kyokai](#)

**Maritime application other Industrial Communication**



[CCS \(China Classification Society\)](#)

[KR \(Korean Register of Shipping\)](#)



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