SIEMENS

Data sheet

6ES7157-1AA00-0AB0

SIMATIC ET 200AL, PROFIBUS INTERFACEMODULE IM157-1 DP, DEGREE OF PROTECTION IP67



General information	
Product type designation	IM 157-1 DP
HW functional status	E01
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 as of version 	STEP 7 V13 SP1 or higher
 STEP 7 configurable/integrated as of version 	From V5.5 SP4 Hotfix 3
 PROFIBUS as of GSD version/GSD revision 	GSD as of Revision 5
Configuration control	
via dataset	Yes
Supply voltage	
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
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	
 Address space per station, max. 	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
Functionality	
PROFIBUS DP slave	Yes
Interface types	
RS 485	
• Transmission rate, max.	12 Mbit/s
Protocols	
PROFIBUS	
Services	
— SYNC capability	Yes
— FREEZE capability	Yes
— Direct data exchange (slave-to-slave	Yes
communication)	
— DPV0	Yes
— DPV1	Yes
Interrupts/diagnostics/status information	
Alarms	Yes
Diagnostic functions	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	Yes
components	
Isolation	
Isolation tested with	707 V DC (type test)
Degree and class of protection	
Degree of protection acc. to EN 60529	
• IP65	Yes
• IP67	Yes
Ambient conditions	
Ambient temperature during operation	
● min.	-25 °C
• max.	55 °C
Connection method	
Power supply	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
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