



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

Product type designation	
<b>General information</b>	
HW functional status	E01
Firmware version	V1.0.0
Vendor identification (VendorID)	81A9H
<b>Product function</b>	
• I&M data	Yes; I&M0 to I&M3
<b>Engineering with</b>	
• STEP 7 TIA Portal can be configured/integrated as of version	STEP 7 V13 SP1 or higher
• PROFIBUS as of GSD version/GSD revision	GSD as of Revision 5
<b>Configuration control</b>	
for dataset	Yes
<b>Supply voltage</b>	
<b>Load voltage 1L+</b>	
• 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
<b>Load voltage 2L+</b>	
• Rated value (DC)	24 V
<b>Input current</b>	
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
<b>Power losses</b>	
Power loss, typ.	1.7 W
<b>Address area</b>	
Address space per station	
• Address space per station, max.	244 byte
<b>Interfaces</b>	
Number of PROFIBUS interfaces	1
1st interface	
• Interface type	PROFIBUS DP
Interface types	
— RS 485	Yes
— M12 port	Yes; 2x M12 b-coded
Protocols	
— PROFIBUS DP slave	Yes
<b>Interface types</b>	
RS 485	
• Transmission rate, max.	12 Mbit/s
PROFIBUS	
Services	
— SYNC capability	Yes
— FREEZE capability	Yes
— Direct data exchange (slave-to-slave communication)	Yes
— DPV0	Yes
— DPV1	Yes
<b>Interrupts/diagnostics/status information</b>	
Alarms	
• Alarms	Yes
Diagnostic messages	
• 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
<b>Galvanic isolation</b>	
between the load voltages	Yes

between PROFIBUS DP and all other circuit components	Yes
<b>Permissible potential difference</b>	
between different circuits	60 V DC/50 V AC (basic insulation)
<b>Isolation</b>	
Isolation checked with	707 V DC (type test)
<b>Degree and class of protection</b>	
Degree of protection to EN 60529	
• IP65	Yes
• IP67	Yes
<b>Ambient conditions</b>	
Ambient temperature in operation	
• Min.	-25 °C
• max.	55 °C
<b>Connection method</b>	
Power supply	M8, 4-pole
ET-Connection	
• ET-Connection	M8, 4-pin, shielded
<b>Dimensions</b>	
Width	45 mm
Height	159 mm
Depth	34 mm; Without connector
<b>Weights</b>	
Weight, approx.	211 g
<b>last modified:</b>	12.03.2015