

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	
<ul style="list-style-type: none"> I&M data 	Yes; I&M0 to I&M3
Engineering with	
<ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated as of version 	STEP 7 V13 SP1 or higher
<ul style="list-style-type: none"> STEP 7 configurable/integrated as of version 	From V5.5 SP4 Hotfix 3
<ul style="list-style-type: none"> PROFIBUS as of GSD version/GSD revision 	GSD as of Revision 5
Configuration control	
via dataset	Yes
Supply voltage	
Load voltage 1L+	
<ul style="list-style-type: none"> Rated value (DC) 	24 V
<ul style="list-style-type: none"> 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
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Address area

Address space per station	
• Address space per station, max.	244 byte

Interfaces

Number of PROFIBUS interfaces	1
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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 communication)	Yes
— 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 components Yes

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

last modified: 10/24/2016