



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	
• 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
• STEP 7 configurable/integrated from version	From V5.5 SP4 Hotfix 3
• PROFIBUS from GSD version/GSD revision	GSD as of Revision 5
Configuration control	
via dataset	Yes
Supply voltage	
power supply according to NEC Class 2 required	No
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
Protocols	
• PROFIBUS DP device	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		https://support.industry.siemens.com/cs/de/en/view/39198632	
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			
		Version	Classification
	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](#)
[China RoHS](#)
[Manufacturer Declaration](#)


[KC](#)

General Product Approval EMV Maritime application



[KC](#)




Maritime application other


[NK / Nippon Kaiji Kyokai](#)

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



Industrial Communication



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