Technical specifications

6

6.1 Technical specifications

Technical specifications of the CM DP (6ES7545-5DA00-0AB0) communication module

	6ES7545-5DA00-0AB0
Product type designation	ET 200SP, CM DP
General information	
Hardware version	FS01
HW functional status	FS01
Engineering with	
STEP 7 TIA Portal can be configured/integrated as of version	V13 Update 3
Installation type/mounting	
Rack mounting possible	No
Rail mounting possible	Yes; standard DIN rail
Supply voltage	
Type of supply voltage	24 VDC
Rated value (DC)	24 V
Valid range low limit (DC)	19.2 V
Valid range high limit (DC)	28.8 V
Reverse polarity protection	Yes
Interfaces	
Number of interfaces PROFIBUS	1
1. interface	
Interface hardware	
• RS 485	Yes
Protocols	
• SIMATIC communication	Yes
• PROFIBUS DP master	Yes
• PROFIBUS DP slave	Yes
Interface hardware	
RS 485	
Transmission rate, max.	12 Mbps
Max. cable length	100 m

	6ES7545-5DA00-0AB0
Protocols	
PROFIBUS DP master	
Services	
• PG/OP communication	Yes
• S7 routing	Yes
• Data record routing	Yes
• Isochronous mode	No
• Constant bus cycle time	No
• Number of DP slaves	125
• Activation/deactivation of DP slaves	Yes
PROFIBUS DP slave	
Transmission rate, max.	12 Mbps
Automatic baud rate search	Yes
Address area, max.	120
User data per address area, max.	128 bytes
Services	
• PG/OP communication	Yes, only with active interface
• Routing	Yes, only with active interface
• S7 communication	Yes, only with active interface
• Direct data exchange (data exchange broadcast)	Yes, no subscriber possible - only passive publisher
• DPV1	Yes
Transfer memory	
• Inputs	244 bytes
• Outputs	244 bytes
Interrupts/diagnostics/status information	
Diagnostic alarms	
Diagnostics	Yes
Diagnostic indicator LED	
For module diagnostics	Yes; green/red DIAG LED
Electrical isolation	
Between backplane bus and interface	Yes
Ambient conditions	
Ambient temperature in operation	
Horizontal installation, min.	0 °C
Horizontal installation, max.	60 °C
Vertical installation, min.	0 °C
Vertical installation, max.	50 °C

	6ES7545-5DA00-0AB0
Dimensions	
Width	35 mm
Height	117 mm
Depth	75 mm
Weights	
Weight, approx.	80 g

Dimension drawing

A

A.1 Dimension drawing of the CM DP communication module

This section contains a dimension drawing of the module mounted on a mounting rail. Observe the dimensions when installing in cabinets, control rooms, etc.

Dimension drawing of the CM DP communication module

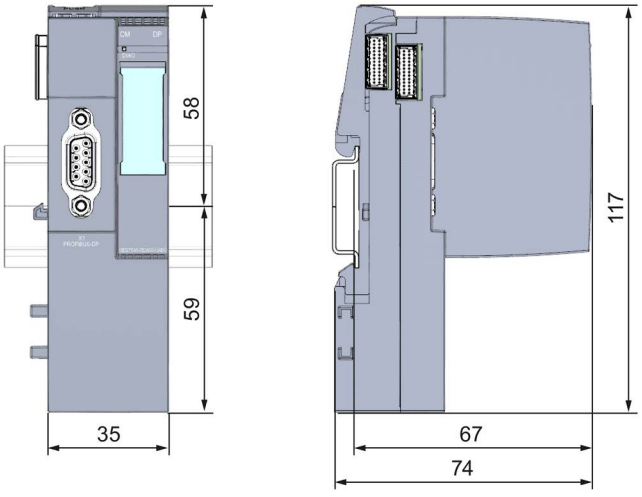


Figure A-1 Dimension drawing CM DP