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Data sheet 6ES7545-5DA00-0AB0



SIMATIC DP, CM PROFIBUS DP for ET 200SP CPU module with PROFIBUS DP interface (9-pole D-sub socket) DP master for 125 DP slaves DP slave,

General information	
Product type designation	CM PROFIBUS DP
HW functional status	FS04
Engineering with	
● STEP 7 TIA Portal configurable/integrated from version	V13 Update 3
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
1. Interface	
Interface types	
● RS 485	Yes
Protocols	
● PROFIBUS DP master	Yes
● PROFIBUS DP device	Yes
● SIMATIC communication	Yes
PROFIBUS DP master	
● max. number of DP devices	125
Services	
— PG/OP communication	Yes
— Equidistance	No
— Isochronous mode	No
— activation/deactivation of DP devices	Yes
PROFIBUS DP device	
● Transmission rate, max.	12 Mbit/s
● automatic baud rate search	Yes
● Address area, max.	120
● User data per address area, max.	128 byte
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 (slave-to-slave communication)	Yes; No subscriber possible - only passive publisher
— DPV1	Yes
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte

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Interface types	
RS 485	
● Transmission rate, max.	12 Mbit/s
● Cable length, max.	100 m
Protocols	
SIMATIC communication	
● S7 routing	Yes
● Data record routing	Yes
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Diagnostics indication LED	
● for module diagnostics	Yes; green/red DIAG LED
Potential separation	
between backplane bus and interface	Yes
Ambient conditions	
Ambient temperature during operation	
● horizontal installation, min.	-25 °C; No condensation
● horizontal installation, max.	60 °C
● vertical installation, min.	-25 °C; No condensation
● vertical installation, max.	50 °C
Altitude during operation relating to sea level	
● Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Dimensions	
Width	35 mm
Height	117 mm
Depth	75 mm
Weights	
Weight, approx.	80 g

Classifications

	Version	Classification
eClass	16	27-24-26-08
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

Manufacturer Declaration

For use in hazardous locations

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UL	FM	CCC-Ex	ATEX	Type Examination Certificate	IECEx

For use in hazardous locations		Maritime application			
Miscellaneous	CCC-Ex	ABS	BUREAU VERITAS	DNV	LRS

Maritime application				
NK / Nippon Kaiji Kyokai	RINA	RMRS	CCS (China Classification Society)	KR (Korean Register of Shipping)

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