

SIPLUS ET 200SP CM DP -40...+60°C with conformal coating based on 6ES7545-5DA00-0AB0 . CM PROFIBUS DP for ET 200SP CPU Module w. PROFIBUS DP interface (9-pole D-sub socket) DP master for 125 DP slaves



Figure similar

General information	
Product type designation	CM PROFIBUS DP
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	
<ul style="list-style-type: none"> • RS 485 	Yes
Protocols	
<ul style="list-style-type: none"> • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication 	Yes Yes Yes
Interface types	
RS 485	

- Transmission rate, max. 12 Mbit/s
- Cable length, max. 100 m

Protocols

PROFIBUS DP master

Services

- PG/OP communication Yes
- S7 routing Yes
- Data record routing Yes
- Isochronous mode No
- Equidistance No
- Number of DP slaves 125
- Activation/deactivation of DP slaves Yes

PROFIBUS DP slave

- 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

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. -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C
- horizontal installation, max. 60 °C; = Tmax
- vertical installation, min. -40 °C; = Tmin; Startup @ -25 °C
- vertical installation, max. 50 °C; = Tmax

Altitude during operation relating to sea level

<ul style="list-style-type: none"> • Installation altitude above sea level, max. • Ambient air temperature-barometric pressure-altitude 	<p>5 000 m</p> <p>Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)</p>
Relative humidity	
<ul style="list-style-type: none"> • With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
Coolants and lubricants	
— Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *
— Against mechanical environmental conditions acc. to EN 60721-3-3	Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
Use on ships/at sea	
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
— to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *
— Against mechanical environmental conditions acc. to EN 60721-3-6	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
Usage in industrial process technology	
— Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)
— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
<ul style="list-style-type: none"> • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 	<p>Yes</p> <p>Yes; Type 1 protection</p>

- Military testing according to MIL-I-46058C, Amendment 7
- Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A

Yes; Discoloration of coating possible during service life

Yes; Conformal coating, Class A

Dimensions

Width	35 mm
Height	117 mm
Depth	75 mm

Weights

Weight, approx.	80 g
-----------------	------

last modified: 05/25/2020