## Data sheet

SIPLUS S7-1500 CM PtP RS232 HF -40...+70°C start up -25°C with conformal coating based on 6ES7541-1AD00-0AB0 . Communication module for Serial connection RS232, Freeport, 3964 (R), USS, MODBUS RTU Master, Slave, 115200 Kbit/s, 9-pin D-sub connector



Figure similar

General information	
Product type designation	CM PtP RS 232 HF
Product function	
● I&M data	Yes; I&M 0
Fast startup	Yes
Installation type/mounting	
Rail mounting	Yes; S7-1500 mounting rail
Supply voltage	
Type of supply voltage	system power supply
Input current	
Current consumption (rated value)	35 mA; From the backplane bus
Power	
Power available from the backplane bus	0.65 W
Power loss	
Power loss, typ.	0.6 W

## Address area Address space per module 8 byte Inputs Interface types RS 232 115.2 kbit/s • Transmission rate, max. • Cable length, max. 15 m RTS, CTS, DTR, DSR, RI, DCD • RS 232 auxiliary signals Protocols Integrated protocols Freeport - Telegram length, max. 4 kbyte 7 or 8 - Bits per character 1 or 2 bit - Number of stop bits — Parity None, even, odd, always 1, always 0, any 3964 (R) 4 kbyte — Telegram length, max. 7 or 8 - Bits per character 1 or 2 bit - Number of stop bits None, even, odd, always 1, always 0, any - Parity Modbus RTU master 1 to 247, extended 1 to 65535 - Address area 1 - Number of slaves, max. MODBUS RTU slave 1 to 247, extended 1 to 65535 - Address area Telegram buffer 8 kbyte • Buffer memory for telegrams 255 • Number of telegrams which can be buffered Interrupts/diagnostics/status information Diagnostics function Yes Alarms Yes • Diagnostic alarm Hardware interrupt No Diagnostic messages Yes Wire-break Diagnostics indication LED • RUN LED Yes Yes; Yellow LED Receive RxD Yes; Yellow LED Transmit TxD

Potential separation

Isolation   Isolation tested with	between backplane bus and interface	Yes
Ambient conditions  Ambient temperature during operation  • horizontal installation, min. • horizontal installation, max. • vertical installation, max. • vertical installation, max. • vertical installation, max.  • vertical installation, max.  • vertical installation attitude above sea level, max. • Ambient air temperature-barometric pressure-attitude  • Installation attitude above sea level, max. • Ambient air temperature-barometric pressure-attitude  • With condensation, tested in accordance with IEC 60068-2-38, max.  Relative humidity  • With condensation, tested in accordance with IEC 60068-2-38, max.  Resistance  Coolants and lubricants  — Resistant to commercially available coolants and lubricants  — To biologically active substances according to EN 60721-3-3  — to chemically active substances according to EN 60721-3-3  — to mechanically active substances according to EN 60721-3-6  — to biologically active substances according to EN 60721-3-6  — to biologically active substances according to EN 60721-3-6  — to chemically active substances according to EN 60721-3-6  — to chemically active substances according to EN 60721-3-6  — to chemically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically	Isolation	
Ambient temperature during operation  • horizontal installation, min. • horizontal installation, min. • vertical installation, max.  • vertical installation, max.  • vertical installation, min. • vertical installation, max.  • Ad °C; = Tmin; Startup @ -25 °C  40 °C  * Tmin; Startup @ -25 °C  40 °C  * Tmin; Startup @ -25 °C  * Tm	Isolation tested with	500 V
Ambient temperature during operation  • horizontal installation, min. • horizontal installation, min. • vertical installation, max.  • vertical installation, max.  • vertical installation, min. • vertical installation, max.  • Ad °C; = Tmin; Startup @ -25 °C  40 °C  * Tmin; Startup @ -25 °C  40 °C  * Tmin; Startup @ -25 °C  * Tm	Ambient conditions	
• horizontal installation, max.     • vertical installation, min.     • vertical installation, max.      • vertical installation, max.  Altitude during operation relating to sea level      • Installation altitude above sea level, max.     • Ambient air temperature-barometric pressurealtitude      • Installation altitude above sea level, max.     • Ambient air temperature-barometric pressurealtitude      • With condensation, tested in accordance with IEC 60068-2-38, max.  Resistance  Coolants and lubricants  — Resistant to commercially available coolants and lubricants  Use in stationary industrial systems  — to biologically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea  — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 607		
vertical installation, min.     vertical installation, max.  Altitude during operation relating to sea level  Installation altitude above sea level, max.  Ambient air temperature-barometric pressurealitude  Imma	horizontal installation, min.	-40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C
Vertical installation, max.     Altitude during operation relating to sea level     Installation altitude above sea level, max.     Ambient air temperature-barometric pressurealtitude     altitude	horizontal installation, max.	70 °C
Altitude during operation relating to sea level  In itsialiation altitude above sea level, max. Ambient air temperature-barometric pressurealitude  Trimi (Tmax - 10 K) at 795 hPa (-1 000 m +2 000 m) // Trimi (Tmax - 20 K) at 658 hPa 558 hPa (+2 000 m +3 500 m) // Trimi (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Trimi (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Trimi (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Trimi (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Trimi (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Trimi (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Trimi (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Trimi (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Trimi (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Trimi (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Trimi (Tmax - 10 K) at 795 hPa (-1 000 m +2 000 m) // Trimi (Tmax - 10 K) at 795 hPa (-1 000 m +2 000 m) // Trimi (Tmax - 10 K) at 795 hPa 580 hPa 580 hPa 540 hPa (+3 500 m +5 000 m) // Trimi (Tmax - 10 K) at 795 hPa 580 hPa 540 hPa (-1 000 m +3 500 m) // Trimi (Tmax - 10 K) at 795 hPa 580 hPa 580 hPa (-1 000 m) // Trimi (Tmax - 10 K) at 795 hPa 580 hPa 580 hPa (-1 000 m) // Trimi (Tmax - 10 K) at 795 hPa 580 hPa 580 hPa 580 hPa 580 hPa 580 hPa 540 hPa 580 hPa 5	• vertical installation, min.	-40 °C; = Tmin; Startup @ -25 °C
Initialiation altitude above sea level, max. Ambient air temperature-barometric pressurealtitude  Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 568 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -10 K) at 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -10 K) at 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -10 K) at 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -10 K) at 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -10 K) at 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -10 K) at 795 hPa (-1 000 m +3 500 m) // Tmin (Tmax -10 K) at 795 hPa (-1 000 m +3 500 m) // Tmin (Tmax -10 K) at 795 hPa (-1 000 m +3 500 m) // Tmin (Tmax -10 K) at 795 hPa (-1 000 m +3 500 m) // Tmin (Tmax -10 K) at 795 hPa (-1 000 m +3 500 m) // Tmin (Tmax -10 K) at 795 hPa (-1 000 m) // Tmin (Tmax -10 K) at 795 hPa (-1 000 m) // Tmin (Tmax -10 K) at 795 hPa (-1 000 m) // Tmin (Tmax -10 K) at 795 hPa (-1 000 m) // Tmin (Tmax -10 K) at 795 hPa (-10 K) at 795 hPa (-10 K) at 795 hPa (-10 K) he (-10 K) at 795 hPa (-10 K) at 795	vertical installation, max.	40 °C
Ambient air temperature-barometric pressurealtitude  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) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax - 10 K) at 795 hPa 540 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 10 K) at 795 hPa 540 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 10 K) at 795 hPa 540 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 10 K) at 795 hPa 540 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 10 K) at 795 hPa 540 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 10 K) at 795 hPa 540 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 10 K) at 795 hPa 540 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 10 K) at 795 hPa 540 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 10 K) at 795 hPa 540 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax - 10 K) at 558 hPa 540 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax - 10 K) at 658 hPa 540 hPa 5	Altitude during operation relating to sea level	
altitude  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) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) +5 0	Installation altitude above sea level, max.	5 000 m
● With condensation, tested in accordance with IEC 60068-2-38, max.  Resistance  Coolants and lubricants  — Resistant to commercially available coolants and lubricants  Use in stationary industrial systems  — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to biologically active substances according to EN 60721-3-6 — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according		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
Resistance  Coolants and lubricants  Resistant to commercially available coolants and lubricants  Use in stationary industrial systems  — to biologically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea  — to biologically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6  Usage in industrial process technology  — Against chemically active substances according to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  Permissible); level LC3 (salt spray) and level LB3 (oil)	Relative humidity	
Coolants and lubricants  — Resistant to commercially available coolants and lubricants  Use in stationary industrial systems  — to biologically active substances according to EN 60721-3-3  — to chemically active substances according to EN 60721-3-3  — to mechanically active substances according to EN 60721-3-3  — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea  — to biologically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  Usage in industrial process technology  — Against chemically active substances acc. to EN 60654-4  — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request  Yes; Class 3B4 incl. sand, dust, *  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-68 (BB3 on request	·	The state of the s
- Resistant to commercially available coolants and lubricants  Use in stationary industrial systems  - to biologically active substances according to EN 60721-3-3 - to themically active substances according to EN 60721-3-3 - to mechanically active substances according to EN 60721-3-3  Use on ships/at sea  - to biologically active substances according to EN 60721-3-6 - to chemically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-3-6 - to mechanically active substances according to EN 60721-3-3-6 - to mechanically active substances according to EN 60721-3-3-6 - to mechanically active substances according to EN 60721-3-3-6 - to mechanically active substances according to EN 60721-3-3-6 - to mechanically active substances according to EN 60721-3-3-6 - to mechanically active substances according to EN 60721-3-3-6 - to mechanically active substances according to EN 6	Resistance	
Use in stationary industrial systems  — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to biologically active substances according to EN 60721-3-3  Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-3 class 3C4 (according trichlorethylene)  Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B2 mold, dust, *  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Y	Coolants and lubricants	
- to biologically active substances according to EN 60721-3-3  - to chemically active substances according to EN 60721-3-3  - to mechanically active substances according to EN 60721-3-3  - to mechanically active substances according to EN 60721-3-3  Use on ships/at sea  - to biologically active substances according to EN 60721-3-6  - to chemically active substances according to EN 60721-3-6  - to chemically active substances according to EN 60721-3-6  - to chemically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to chemically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-6  - to mechanically active substances according to EN 60721-3-3 (according trichlorethylene)  - to mechanically active substances according to EN 60721-3-3 class 3 (excluding trichlorethylene)  - to EN 60654-4  - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  - Environmental conditions for process, measuring and control systems acc. to permissible); level LC3 (salt spray) and level LB3 (oil)		Yes; Incl. diesel and oil droplets in the air
to EN 60721-3-3  — to chemically active substances according to EN 60721-3-3  — to mechanically active substances according according to EN 60721-3-3  Use on ships/at sea  — to biologically active substances according to EN 60721-3-6  — to chemically active substances according to EN 60721-3-6  — to chemically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  Usage in industrial process technology  — Against chemically active substances acc. to EN 60654-4  — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  exception of fauna); Class 3B3 on request  Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6C3	Use in stationary industrial systems	
to EN 60721-3-3  — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea  — to biologically active substances according to EN 60721-3-6  — to chemically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  Usage in industrial process technology  — Against chemically active substances acc. to EN 60654-4  — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  52 (severity degree 3); *  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6S3 incl. sand, dust; *		
Use on ships/at sea  — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6  Usage in industrial process technology — Against chemically active substances according to EN 60654-4 — Environmental conditions for process, measuring and control systems according according to EN 60721-3-3 class 3C4 ANSI/ISA-71.04  Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request  Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *  Yes; Class 6S3 incl. sand, dust; *  Yes; Class 3 (excluding trichlorethylene)  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)	-	
<ul> <li>to biologically active substances according to EN 60721-3-6</li> <li>to mechanically active substances according to EN 60721-3-6</li> <li>Usage in industrial process technology</li> <li>Against chemically active substances acc. to EN 60654-4</li> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> <li>Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request</li> <li>Yes; Class 6C3 (RH &lt; 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *</li> <li>Yes; Class 6S3 incl. sand, dust; *</li> <li>Yes; Class 3 (excluding trichlorethylene)</li> <li>Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request</li> <li>Yes; Class 6C3 (RH &lt; 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *</li> <li>Yes; Class 6S3 incl. sand, dust; *</li> </ul>	-	Yes; Class 3S4 incl. sand, dust, *
to EN 60721-3-6  — to chemically active substances according to EN 60721-3-6  — to mechanically active substances according according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  Usage in industrial process technology  — Against chemically active substances acc. to EN 60654-4  — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  — Environmental conditions for process, measuring and control systems acc. to EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Use on ships/at sea	
to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  Usage in industrial process technology  — Against chemically active substances according to EN 60654-4  — Environmental conditions for process, measuring and control systems according to EN 60721-3-3 class 3C4  ANSI/ISA-71.04  52 (severity degree 3); *  Yes; Class 6S3 incl. sand, dust; *  Yes; Class 3 (excluding trichlorethylene)  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)		
according to EN 60721-3-6  Usage in industrial process technology  — Against chemically active substances acc. to EN 60654-4  — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  Yes; Class 3 (excluding trichlorethylene)  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)	-	
Usage in industrial process technology  — Against chemically active substances acc. to EN 60654-4  — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04  Yes; Class 3 (excluding trichlorethylene)  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)	-	Yes; Class 6S3 incl. sand, dust; *
<ul> <li>Against chemically active substances acc. to EN 60654-4</li> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> <li>Yes; Class 3 (excluding trichlorethylene)</li> <li>Yes; Class 3 (excluding trichlorethylene)</li> <li>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)</li> </ul>	•	
measuring and control systems acc. to concentrations up to the limits of EN 60721-3-3 class 3C4 ANSI/ISA-71.04 concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Against chemically active substances acc.	Yes; Class 3 (excluding trichlorethylene)
Remark	measuring and control systems acc. to	concentrations up to the limits of EN 60721-3-3 class 3C4
	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

 Coatings for printed circuit board assemblies acc. to EN 61086 Yes

• Protection against fouling acc. to EN 60664-3

Yes; Type 1 protection

• Military testing according to MIL-I-46058C,

Yes; Discoloration of coating possible during service life

Amendment 7
• Qualification and Performance of Electrical

Yes; Conformal coating, Class A

Insulating Compound for Printed Board
Assemblies according to IPC-CC-830A

Decentralized operation	
to SIMATIC S7-300	Yes
to SIMATIC S7-400	Yes
to SIMATIC S7-1500	Yes
to standard PROFINET controller	Yes

Dimensions	
Width	35 mm
Height	147 mm
Depth	127 mm

Weights	
Weight, approx.	0.22 kg

last modified: 05/13/2020