

SIPLUS S7-1200 CM1241 -40...+70 °C with conformal coating based on 6ES7241-1CH32-0XB0 . Communication module CM 1241, RS422/485, 9-pole D-sub (pin) supports Freeport



General information

| | |
|--------------------------|-------------------|
| Product type designation | CM 1241 RS422/485 |
|--------------------------|-------------------|

Supply voltage

| | |
|-------------------------------------|--------|
| Rated value (DC) | Yes |
| • 24 V DC | |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |

Power loss

| | |
|------------------|-------|
| Power loss, typ. | 1.2 W |
|------------------|-------|

Interfaces

| | |
|--|-----|
| Number of interfaces | 1 |
| Interface (physical) RS 422/485 (X.27) | Yes |

Point-to-point

| | |
|----------------------|---------|
| • Cable length, max. | 1 000 m |
|----------------------|---------|

Integrated protocol driver

| | |
|---------|------------------------------------|
| — ASCII | Yes; Available as library function |
| — USS | Yes; Available as library function |

Ambient conditions

| | |
|--|--|
| Free fall | |
| <ul style="list-style-type: none"> • Fall height, max. | 0.3 m; five times, in product package |
| Ambient temperature during operation | |
| <ul style="list-style-type: none"> • min. • max. | -40 °C; = Tmin; Startup @ -25 °C 70 °C; Tmax > 60 °C, derating: Max. one module may be configured; this module must be the last module on the CM bus; minimum clearance on the left side of at least 45 mm |
| Ambient temperature during storage/transportation | |
| <ul style="list-style-type: none"> • min. • max. | -40 °C 70 °C |
| Air pressure acc. to IEC 60068-2-13 | |
| <ul style="list-style-type: none"> • Operation, min. • Operation, max. • Storage/transport, min. • Storage/transport, max. | 795 hPa 1 080 hPa 660 hPa 1 080 hPa |
| 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 | 5 000 m 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) |
| Relative humidity | |
| <ul style="list-style-type: none"> • Operation at 25 °C without condensation, max. • With condensation, tested in accordance with IEC 60068-2-38, max. | 95 % 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) |
| Resistance | |
| Coolants and lubricants | |
| — Resistant to commercially available coolants and lubricants | Yes |
| 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, * |
| 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; * |

from supply voltage 1L+

— Note regarding classification of environmental conditions acc. to EN 60721

* The supplied plug covers must remain in place over the unused interfaces during operation!

Dimensions

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|--------|--------|
| Width | 30 mm |
| Height | 100 mm |
| Depth | 75 mm |

Weights

| | |
|-----------------|-------|
| Weight, approx. | 155 g |
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last modified: 05/16/2018