

SIPLUS S7-1200 CB 1241, -40...+60°C start-up -25°C with conformal coating based on 6ES7241-1CH30-1XB0 RS 485



Figure similar

| General information                       |                |
|-------------------------------------------|----------------|
| Product type designation                  | CB 1241 RS 485 |
| Input current                             |                |
| from backplane bus 5 V DC, typ.           | 50 mA          |
| Power loss                                |                |
| Power loss, typ.                          | 1.5 W          |
| Interrupts/diagnostics/status information |                |
| Diagnostics function                      | Yes            |
| Diagnostics indication LED                |                |
| • for status of the outputs               |                |
|                                           | Yes            |
| Degree and class of protection            |                |
| Degree of protection acc. to EN 60529     |                |
| • IP20                                    |                |
|                                           | Yes            |
| Ambient conditions                        |                |
| Free fall                                 |                |

|                                                                                              |                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • Fall height, max.                                                                          | 0.3 m; five times, in product package                                                                                                                                                                           |
| <b>Ambient temperature during operation</b>                                                  |                                                                                                                                                                                                                 |
| • min.                                                                                       | -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C                                                                                                                                                    |
| • max.                                                                                       | 60 °C; = Tmax                                                                                                                                                                                                   |
| <b>Ambient temperature during storage/transportation</b>                                     |                                                                                                                                                                                                                 |
| • min.                                                                                       | -40 °C                                                                                                                                                                                                          |
| • max.                                                                                       | 70 °C                                                                                                                                                                                                           |
| <b>Altitude during operation relating to sea level</b>                                       |                                                                                                                                                                                                                 |
| • Installation altitude above sea level, max.                                                | 5 000 m                                                                                                                                                                                                         |
| • Ambient air temperature-barometric pressure-altitude                                       | 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) |
| <b>Relative humidity</b>                                                                     |                                                                                                                                                                                                                 |
| • Operation at 25 °C without condensation, max.                                              | 95 %                                                                                                                                                                                                            |
| • With condensation, tested in accordance with IEC 60068-2-38, max.                          | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions)                                                                                                                             |
| <b>Resistance</b>                                                                            |                                                                                                                                                                                                                 |
| <b>Coolants and lubricants</b>                                                               |                                                                                                                                                                                                                 |
| — Resistant to commercially available coolants and lubricants                                | Yes; Incl. diesel and oil droplets in the air                                                                                                                                                                   |
| <b>Use in stationary industrial systems</b>                                                  |                                                                                                                                                                                                                 |
| — 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, *                                                                                                                                                                              |
| <b>Use on ships/at sea</b>                                                                   |                                                                                                                                                                                                                 |
| — 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; *                                                                                                                                                                              |
| <b>Usage in industrial process technology</b>                                                |                                                                                                                                                                                                                 |
| — 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)                             |
| <b>Remark</b>                                                                                |                                                                                                                                                                                                                 |

— 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
- Protection against fouling acc. to EN 60664-3
- 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; Class 2 for high availability

Yes; Type 1 protection

Yes; Discoloration of coating possible during service life

Yes; Conformal coating, Class A

#### Mechanics/material

Enclosure material (front)

- Plastic

Yes

#### Dimensions

|        |       |
|--------|-------|
| Width  | 38 mm |
| Height | 62 mm |
| Depth  | 21 mm |

#### Weights

|                 |      |
|-----------------|------|
| Weight, approx. | 40 g |
|-----------------|------|

**last modified:** 11/25/2019