## SIEMENS

## Data sheet

## 6AG1241-1CH32-4XB0



SIPLUS S7-1200 CM 1241 based on 6ES7241-1CH32-0XB0 with conformal coating, -25...+60 °C, communications module CM 1241, RS-422/485, 9-pole D-sub (pin) supports Freeport

Figure similar

General information         CMI 1241 RS 422 / 485           Product type designation         CMI 1241 RS 422 / 485           Supply volges         Exact value (DC)         24 V           Permissible range, upper limit (DC)         20.4 V           permissible range, upper limit (DC)         28.8 V           Power loss         Power loss           Prower loss, typ.         1.2 W           Interfaces/bus type         RS 422 / 485 (X 27)           Number of interfaces         1           Point-to-point connection         -           - Cable length, max.         1 000 m           Integrated protocol driver         -           - ASCI1         Yes; Available as library function           - USS         Yes; Available as library function           - File height, max.         0.3 m; five times, in product package           Ambient temperature during operation         -           • Fail height, max.         0.3 m; five times, in product package           Ambient temperature during storage/transportation         -           • min.         -0° °C           • min.         -0° °C           • max.         70 °C           Ambient temperature during storage/transportation         -           • Installation alltude above sea level, max.		
Supply voltage         Rated value (DC)       24 V         permissible range, lower limit (DC)       20.4 V         permissible range, upper limit (DC)       28.8 V         Power loss       1.2 W         Interfaces/bus type       RS 422 / 485 (X.27)         Number of interfaces       1         Point-to-point connection       1 <ul> <li>Cable length, max.</li> <li>1000 m</li> <li>Integrated protocol driver</li> <li>ASCII</li> <li>Yes; Available as library function</li> <li>-USS</li> <li>-20 °C; = Timax</li> <li>Ambient temperature during to sea level</li></ul>	General information	
Rated value (DC)     24 V       permissible range, lower limit (DC)     26.8 V       Power loss, typ.     28.8 V       Power loss, typ.     1.2 W       Interfaces/subs type     RS 422 / 485 (X 27)       Number of interfaces     1       Point-Lopoint connection     1       • Cable length, max.     1 000 m       Interfaces/protocol driver	Product type designation	CM 1241 RS 422 / 485
permissible range, lower limit (DC)         20.4 V           permissible range, upper limit (DC)         28.8 V           Power loss         Power loss           Power loss, typ.         1.2 W           Interfaces         Interfaces           Interfaces         RS 422 / 485 (X.27)           Number of interfaces         1           Point-to-point connection         -           • Cable length, max.         100 m           Interfaced protocol driver         -          ASCII         Yes; Available as library function          USS         Yes; Available as library function           Ambient conditions         -           Free fall         -           • Fall height, max.         0.3 m; five times, in product package           Ambient temperature during operation         -           • min.         -20 °C; = Tmax           Ambient temperature during storage/transportation         -           • min.         -40 °C           • max.         70 °C           Ambient air temperature-barometric pressure-altitude         -           • Installation atitude above sea level, max.         -           • Ambient air temperature-barometric pressure-altitude         -           • Installation atitude above sea lev	Supply voltage	
permissible range, upper limit (DC)       28.8 V         Power loss       Power loss, typ.         Interfaces/bus type       RS 422 / 485 (X.27)         Number of interfaces       1         Pointo-point connection       -         • 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       -0.3 m; five times, in product package         Ambient temperature during operation       -20 °C; = Timax         • min.       -20 °C; = Timax         Ambient temperature during storage/transportation       -         • min.       -40 °C         • max.       70 °C         Attitude during operation relating to sea level       -         • Installation relating to sea level       -         • Installation at 1140 hPa785 hPa (-1000 m +2 000 m) // Timin (Timax -10 kY) at 785 hPa86 hPa (+20 00 m +3 500 m) // Timin (Timax -10 kY) at 785 hPa56 hPa (+3 000 m +3 000 m) // Timin (Timax -20 K) at 658 hPa540 hPa (+3 500 m +3 000 m) // Timin (Timax -20 K) at 658 hPa	Rated value (DC)	24 V
Power loss, typ.       1.2 W         Interfaces       Interfaces/Lest Syp.         Interfaces       1         Point-to-point connection       1         Cable length, max.       1.000 m         Interfaces/Lest Syp.       1.000 m         Interfaces/Lest Syp.       1.000 m         Interfaces/Lest Syp.       1.000 m         Cable length, max.       1.000 m         Integrated protocol driver	permissible range, lower limit (DC)	20.4 V
Power loss, typ.       1.2 W         Interfaces       Interfaces         Interfaces/tous type       RS 422 / 485 (X.27)         Number of interfaces       1         Point-to-point connection       1         • Cable length, max.       1 000 m         Integrated protocol driver       -         - ASCII       Yes; Available as library function         - USS       Yes; Available as library function         Ambient conditions       Yes; Available as library function         Free fail       • Fail height, max.       0.3 m; five times, in product package         Ambient temperature during operation       • 0.3 m; five times, in product package         • min.       -20 °C; = Tmax         Ambient temperature during storage/transportation       -20 °C; = Tmax         • min.       -20 °C; = Tmax         Ambient air temperature during storage/transportation       -40 °C         • min.       -50 °C         • Installation altitude above sea level       -50 °C         • Installation altitude above sea level, max.       5 000 m         • Noisert air temperature-barometric pressure-altitude       -10 % (X) at 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -10 %) at 658 hPa ( 540 m) // Tmin (Tmax -20 K) at 658 hPa ( 540 m) // Tmin (Tmax -540 m) // Tmin (Tmax -20 K) at 658 hPa ( 540 m) // Tmin (Tmax -2	permissible range, upper limit (DC)	28.8 V
Interfaces         RS 422 / 485 (X 27)           Number of interfaces         1           Point-to-point connection         1           • Cable length, max.         1 000 m           Integrated protocol driver         -           - ASCII         Yes; Available as library function           - USS         Yes; Available as library function           Ambient conditions         Yes; Available as library function           Free fall         -           • Fall height, max.         0.3 m; five times, in product package           Ambient temperature during operation         -           • min.         -20 °C; = Tmin (incl. condensation/frost); start-up @ 0 °C           • on max.         60 °C           * max.         70 °C           Ambient aititude above sea level, max.         5 000 m           • Installation altitude above sea level, max.         5 000 m           • Installation altitude above sea level, max.         5 000 m           • Ambient air temperature-barometric pressure-altitude         -10 K at 795 hPa (-1000 m +2 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)           • Iot X at 795 hPa 540 hPa + (+3 500 m +5 000 m)         -10 K at 795 hPa (-1000 m +5 000 m)           • Iot X at 795 hPa 540 hPa (+3 500 m +5 000 m)         -10 K at 795 hPa (-1000 m +2 000 m) //	Power loss	
Interfaces/bus type         RS 422 / 485 (X.27)           Number of interfaces         1           Point-to-point connection         1           • Cable length, max.         1 000 m           Integrated protocol driver         - ASCII           - Mathem Conditions         Yes; Available as library function           - USS         Yes; Available as library function           Ambient conditions         Yes; Available as library function           • min.         0.3 m; five times, in product package           Ambient temperature during operation         • min.           • max.         60 °C; = Tmax           Ambient temperature during storage/transportation         • 0°C           • max.         70 °C           Ambient temperature during to sea level         • C           • installation altitude above sea level, max.         5 000 m           • fistallation altitude above sea level, max.         5 000 m           • Ambient air temperature-barometric pressure-altitude         1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -20 K) at 658 hPa (-2 000 m +5 000 m)           • Ambient air temperature-barometric pressure-altitude         1 With condensation, tested in accordance with IEC 60068- 2.38, max.           • Qperation at 25 °C without condensation, max.         95 %           100 %; RH incl. condensation/frost (no com	Power loss, typ.	1.2 W
Number of interfaces       1         Point-to-point connection       -         • Cable length, max.       1000 m         Integrated protocol driver       -         - ASCII       Yes; Available as library function         - USS       Yes; Available as library function         Ambient conditions       -         Free fall       0.3 m; five times, in product package         Ambient temperature during operation       0.3 m; five times, in product package         • ninin.       -20 °C; = Tmax         Ambient temperature during storage/transportation       -40 °C         • max.       60 °C         • max.       70 °C         Attitude during operation relating to sea level       -40 °C         • installation altitude above sea level, max.       5000 m         • Installation altitude above sea level, max.       5000 m         • Ambient air temperature-barometric pressure-altitude       Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -1 14) xi 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -1 14) xi 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -1 14) xi 795 hPa 658 hPa 568 hPa (-1 000 m +2 000 m) // Tmin (Tmax -1 14) xi 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -1 14) xi 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -1 14) xi 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -2 xi, xi 795 hPa 658 hPa 568 hPa (-2 000 m +3 000 m) // Tmin (Tma	Interfaces	
Point-to-point connection       1 000 m         • Cable length, max.       1 000 m         Integrated protocol driver	Interfaces/bus type	RS 422 / 485 (X.27)
• 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       0.3 m; five times, in product package         Ambient temperature during operation       -20 °C; = Tmin (incl. condensation/frost); start-up @ 0 °C         • max.       60 °C; = Tmax         Ambient temperature during storage/transportation       -40 °C         • min.       -40 °C         • max.       70 °C         Altitude during operation relating to sea level       Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -10 K) at 795 hPa (-1 000 m +3 000 m) // Tmin (Tmax -10 K) at 795 hPa (-5 000 m +3 000 m) // Tmin (Tmax -10 K) at 795 hPa (-5 000 m +3 000 m) // Tmin (Tmax -20 K) at 658 hPa (+2 000 m +3 000 m) // Tmin (Tmax -20 K) at 658 hPa (+2 000 m +5 000 m)         Relative humidity       •         • Operation at 25 °C without condensation, max.       95 %         • With condensation, tested in accordance with IEC 60068- 2-38, max.       55 %         • With condensation, tested in accordance with IEC 60068- 2-38, max.       55 %         • With condensation to commercially available coolants and lubricants       Yes; Incl. diesel and oil droplets in the air         Use in stationary indu	Number of interfaces	1
Integrated protocol driver         ASCII       Yes; Available as library function         USS       Yes; Available as library function         Ambient conditions	Point-to-point connection	
- ASCII       Yes; Available as library function         USS       Yes; Available as library function         Ambient conditions	Cable length, max.	1 000 m
USS       Yes; Available as library function         Ambient conditions       Free fall         • Fall height, max.       0.3 m; five times, in product package         Ambient temperature during operation       -20 °C; = Tmin (incl. condensation/frost); start-up @ 0 °C         • min.       -20 °C; = Tmax         • Ambient temperature during storage/transportation       60 °C; = Tmax         • min.       -40 °C         • max.       70 °C         Altitude during operation relating to sea level	Integrated protocol driver	
Ambient conditions         Free fall         • Fail height, max.       0.3 m; five times, in product package         Ambient temperature during operation         • min.       -20 °C; = Tmin (incl. condensation/frost); start-up @ 0 °C         • max.       60 °C; = Tmax         Ambient temperature during storage/transportation         • min.       -40 °C         • max.       70 °C         Altitude during operation relating to sea level         • 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)         Relative humidity       95 %         • 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)         Resistance       Coolants and lubricants       Yes; Incl. diesel and oil droplets in the air         Use in stationary industrial systems       Yes; Incl. diesel and oil droplets in the air	— ASCII	Yes; Available as library function
Free fall       0.3 m; five times, in product package         Ambient temperature during operation       -20 °C; = Tmin (incl. condensation/frost); start-up @ 0 °C         • min.       -20 °C; = Tmax         Ambient temperature during storage/transportation       60 °C; = Tmax         Ambient temperature during storage/transportation       -40 °C         • max.       70 °C         Attitude during operation relating to sea level       -10 °C         • 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 568 hPa 550 Nm at 658 hPa 550 Nm at 658 hPa 550 Nm at 658 hPa 550 Nm +5 000 m)         Relative humidity       95 %         • 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)         Resistance       -Resistant to commercially available coolants and lubricants       Yes; Incl. diesel and oil droplets in the air         Use in stationary industrial systems       Yes; Incl. diesel and oil droplets in the air	— USS	Yes; Available as library function
• Fall height, max.       0.3 m; five times, in product package         Ambient temperature during operation       -20 °C; = Tmin (incl. condensation/frost); start-up @ 0 °C         • max.       60 °C; = Tmax         Ambient temperature during storage/transportation       -40 °C         • min.       -40 °C         • max.       70 °C         Altitude during operation relating to sea level       -         • Installation altitude above sea level, max.       5 000 m         • Ambient air temperature-barometric pressure-altitude       5 000 m         • Ambient air temperature-barometric pressure-altitude       -10 K) at 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -20 K) at 658 hPa 550 hPa (-1 000 m +2 000 m) // Tmin (Tmax -20 K) at 658 hPa 550 hPa (-1 000 m +2 000 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)         Relative humidity       -         • Operation at 25 °C without condensation, max.       95 %         • With condensation, tested in accordance with IEC 60068- 2-38, max.       -         • With condensation, tested in accordance with IEC 60068- 2-38, max.       -         Colants and lubricants       -         - Resistant to commercially available coolants and lubricants       Yes; Incl. diesel and oil droplets in the air         Use in stationary industrial systems       Yes; Incl. diesel and oil droplets in the air	Ambient conditions	
Ambient temperature during operation       -20 °C; = Tmin (incl. condensation/frost); start-up @ 0 °C         • max.       60 °C; = Tmax         Ambient temperature during storage/transportation       -40 °C         • min.       -40 °C         • max.       70 °C         Altitude during operation relating to sea level       -40 °C         • 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 -20 K) at 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       95 %         • Operation at 25 °C without condensation, max.       95 %         • With condensation, tested in accordance with IEC 60068- 2-38, max.       95 %         Resistance       100 %; RH incl. condensation/frost (no commissioning under condensation conditions)         Resistance	Free fall	
<ul> <li>min.</li> <li>-20 °C; = Tmin (incl. condensation/frost); start-up @ 0 °C</li> <li>max.</li> <li>60 °C; = Tmax</li> <li>Ambient temperature during storage/transportation</li> <li>min.</li> <li>-40 °C</li> <li>max.</li> <li>70 °C</li> <li>Altitude during operation relating to sea level</li> <li>Installation altitude above sea level, max.</li> <li>Ambient air temperature-barometric pressure-altitude</li> <li>S 000 m</li> <li>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 -10 K) at 795 hPa (-500 m)</li> <li>Relative humidity</li> <li>Operation at 25 °C without condensation, max.</li> <li>With condensation, tested in accordance with IEC 6006a-2-38, max.</li> <li>With condensation, tested in accordance with IEC 6006a-2-38, max.</li> <li>Resistance</li> <li>Coolants and lubricants</li> <li>— Resistant to commercially available coolants and lubricants</li> <li>Use in stationary industrial systems</li> <li>Yes; Incl. diesel and oil droplets in the air</li> </ul>	<ul> <li>Fall height, max.</li> </ul>	0.3 m; five times, in product package
• max.       60 °C; = Tmax         Ambient temperature during storage/transportation         • min.       -40 °C         • max.       70 °C         Altitude during operation relating to sea level       5000 m         • 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)         Relative humidity       •         • Operation at 25 °C without condensation, max.       95 %         • With condensation, tested in accordance with IEC 6006as 2-38, max.       95 %         • Coolants and lubricants       100 %; RH incl. condensation/frost (no commissioning under condensation conditions)         Resistance       Ves; Incl. diesel and oil droplets in the air         Use in stationary industrial systems       Yes; Incl. diesel and oil droplets in the air	Ambient temperature during operation	
Ambient temperature during storage/transportation       -40 °C         • max.       -40 °C         • max.       70 °C         Altitude during operation relating to sea level       -         • Installation altitude above sea level, max.       5 000 m         • Ambient air temperature-barometric pressure-altitude       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)         Relative humidity       -         • 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)         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       Yes; Incl. diesel and oil droplets in the air	● min.	-20 °C; = Tmin (incl. condensation/frost); start-up @ 0 °C
• min.       -40 °C         • max.       70 °C         Altitude during operation relating to sea level       5000 m         • 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 ( 4000 m +3 500 m) // Tmin (Tmax -10 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)         Relative humidity       • Operation at 25 °C without condensation, max.         • With condensation, tested in accordance with IEC 60068-2-38, max.       95 %         Resistance       100 %; RH incl. condensation/frost (no commissioning under condensation conditions)         Resistance       -Resistant to commercially available coolants and lubricants        Resistant to commercially available coolants and lubricants       Yes; Incl. diesel and oil droplets in the air         Use in stationary industrial systems       Yes; Incl. diesel and oil droplets in the air	• max.	60 °C; = Tmax
• max.70 °CAltitude during operation relating to sea level5 000 m• Installation altitude above sea level, max.5 000 m• Ambient air temperature-barometric pressure-altitudeTmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -20 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 658 hPa 540 hPa (+3 500 m +5 000 m)Relative humidity95 %• 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)ResistanceCoolants and lubricants- Resistant to commercially available coolants and lubricantsYes; Incl. diesel and oil droplets in the airUse in stationary industrial systemsYes; Incl. diesel and oil droplets in the air	Ambient temperature during storage/transportation	
Altitude during operation relating to sea level         • Installation altitude above sea level, max.         • 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)         Relative humidity         • Operation at 25 °C without condensation, max.         • With condensation, tested in accordance with IEC 60068-2-38, max.         Pesistance         Coolants and lubricants         - Resistant to commercially available coolants and lubricants         Use in stationary industrial systems	• min.	
• 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)         Relative humidity       • 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)         Resistance       Coolants and lubricants       - Resistant to commercially available coolants and lubricants         Use in stationary industrial systems       Yes; Incl. diesel and oil droplets in the air	• max.	70 °C
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)      Relative humidity     Operation at 25 °C without condensation, max.     Operation at 25 °C without condensation, max.     With condensation, tested in accordance with IEC 60068-     2-38, max.     Oolants and lubricants     Ocolants and lubricants     Ocolants and lubricants     Ocolants and lubricants     Output for the air lubricants     Ou	Altitude during operation relating to sea level	
- 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         • Operation at 25 °C without condensation, max.         • With condensation, tested in accordance with IEC 60068-2-38, max.         95 %         Resistance         Coolants and lubricants         - Resistant to commercially available coolants and lubricants         Ves; Incl. diesel and oil droplets in the air         Use in stationary industrial systems	<ul> <li>Installation altitude above sea level, max.</li> </ul>	5 000 m
Operation at 25 °C without condensation, max.     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      Set State Sta	<ul> <li>Ambient air temperature-barometric pressure-altitude</li> </ul>	- 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K)
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	Relative humidity	
2-38, max.     conditions)       Resistance       Coolants and lubricants       — Resistant to commercially available coolants and lubricants       Use in stationary industrial systems	• Operation at 25 °C without condensation, max.	95 %
Coolants and lubricants       — Resistant to commercially available coolants and lubricants       Yes; Incl. diesel and oil droplets in the air         Use in stationary industrial systems       Yes		
<ul> <li>Resistant to commercially available coolants and lubricants</li> <li>Use in stationary industrial systems</li> </ul>	Resistance	
lubricants Use in stationary industrial systems	Coolants and lubricants	
		Yes; Incl. diesel and oil droplets in the air
- to biologically active substances according to EN Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna):	Use in stationary industrial systems	
	— to biologically active substances according to EN	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna);

60721-3-3	Class 3B3 on request
<ul> <li>— to chemically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
<ul> <li>— to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
<ul> <li>— to biologically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
<ul> <li>— to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
<ul> <li>— to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
<ul> <li>Against chemically active substances acc. to EN 60654-4</li> </ul>	Yes; Class 3 (excluding trichlorethylene)
<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul>	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	
<ul> <li>Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
<ul> <li>Coatings for printed circuit board assemblies acc. to EN 61086</li> </ul>	Yes; Class 2 for high reliability
<ul> <li>Protection against fouling acc. to EN 60664-3</li> </ul>	Yes; Type 1 protection
<ul> <li>Military testing according to MIL-I-46058C, Amendment 7</li> </ul>	Yes; Discoloration of coating possible during service life
<ul> <li>Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A</li> </ul>	Yes; Conformal coating, Class A
Dimensions	
Width	30 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	155 g

last modified:

12/18/2020 🖸