SIEMENS

Data sheet

6AG1136-6RA00-2BF0



SIPLUS ET 200SP F-RQ DC 24V/24-230V AC/5A based on 6ES7136-6RA00-0BF0 with conformal coating, -30...+60 °C, 20 mm overall width, 1 relay output (2 NO) summation output current 5 A, load voltage 24 V DC and 24 ... 230 V AC, can be used up to PL e (ISO 13849-1: 2008)/ SIL 3 (IEC 61508: 2010) if controlled by F-DQ (e.g. 6AG1136-6DB00-2CA0)

Figure similar

| riguresiiina | |
|----------------------------------------------------------------------------|---------------------------------------|
| General information | |
| Product type designation | F-RQ 1x24 V DC/24 230 V AC/5 A |
| Firmware version | |
| FW update possible | Yes |
| based on | 6ES7136-6RA00-0BF0 |
| usable BaseUnits | BU type F0 |
| Color code for module-specific color identification plate | CC42 |
| Product function | |
| ● I&M data | Yes; I&M0 to I&M3 |
| Engineering with | |
| STEP 7 TIA Portal configurable/integrated from version | see entry ID: 109746275 |
| Supply voltage | |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |
| Power | |
| Power consumption from the backplane bus | 100 mW |
| Power loss | |
| Power loss, typ. | 1 W |
| Address area | |
| Address space per module | |
| Inputs | 1 byte |
| Digital outputs | |
| Type of digital output | Relays |
| Number of digital outputs | 1 |
| Limitation of inductive shutdown voltage to | No |
| Controlling a digital input | Yes |
| Switching capacity of the outputs | |
| with resistive load, max. | 5 A |
| on lamp load, max. | 25 W |
| Switching frequency | |
| with resistive load, max. | 2 Hz |
| with inductive load, max. | 0.1 Hz; See data in manual |
| • with inductive load (acc. to IEC 60947-5-1, DC13), max. | 0.1 Hz |
| • with inductive load (acc. to IEC 60947-5-1, AC15), max. | 2 Hz |
| Total current of the outputs (per module) | |
| horizontal installation | |
| — up to 40 °C, max. | 5 A; note derating data in the manual |
| — up to 50 °C, max. | 4 A; note derating data in the manual |

| um to CO °C | 2. As note despting data in the arrays. | | |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--|--|
| — up to 60 °C, max. | 3 A; note derating data in the manual | | |
| — up to 70 °C, max. | 3 A; note derating information in the manual; only with configured slots to the left and right of the module | | |
| vertical installation | | | |
| — up to 50 °C, max. | 3 A; note derating data in the manual | | |
| Relay outputs | | | |
| Number of relay outputs | 1; 2 NO contacts | | |
| Rated supply voltage of relay coil L+ (DC) | 24 V | | |
| Current consumption of relays (coil current of all relays), | 70 mA | | |
| max. • external protection for relay outputs | ves: 6 A see data in manual | | |
| external protection for relay outputs Relay approved acc. to UL 508 | yes; 6 A, see data in manual Yes; Pilot Duty B300, R300 | | |
| Relay approved acc. to UL 508 Switching capacity of contacts | . 50, 1 110, 5 aty 5000, 11000 | | |
| with inductive load, max. | see additional description in the manual | | |
| with inductive load, max. — with resistive load, max. | see additional description in the manual | | |
| — With resistive load, max. — Thermal continuous current, max. | 5 A | | |
| Switching current, min. | 1 mA | | |
| Switching current after exceeding 300 mA, min. | 10 mA | | |
| Switching current after exceeding 300 mA, max. | 5 A | | |
| — Rated switching voltage (DC) | 24 V | | |
| Rated switching voltage (DC) Rated switching voltage (AC) | 230 V | | |
| — Rated switching voltage (AC) Cable length | | | |
| • shielded, max. | 500 m; for load contacts | | |
| • unshielded, max. | 300 m; for load contacts | | |
| Control cable (input), max. | 10 m | | |
| Interrupts/diagnostics/status information | | | |
| Diagnostics function | Yes | | |
| Diagnostics indication LED | | | |
| RUN LED | Yes; green/red DIAG LED | | |
| Channel status display | Yes; green LED | | |
| Potential separation | | | |
| Potential separation channels | | | |
| between the channels | Yes; for SELV / PELV only | | |
| between the channels and backplane bus | Yes | | |
| between the channels and the power supply of the | Yes | | |
| electronics Isolation | | | |
| Isolation tested with | 2 545 V DC/2 s (routine test) | | |
| Overvoltage category | 2 545 V DC/2 s (routine test) | | |
| Standards, approvals, certificates | | | |
| Standards, approvals, certificates Suitable for safety functions | Yes | | |
| Suitable for safety functions Ecological footprint | . 50 | | |
| environmental product declaration | Yes | | |
| environmental product declaration Global warming potential | . 50 | | |
| — global warming potential, (total) [CO2 eq] | 52 kg | | |
| global warming potential, (total) [CO2 eq] global warming potential, (during production) [CO2 | 6.8 kg | | |
| eq] | | | |
| — global warming potential, (during operation) [CO2 eq] | 45.8 kg | | |
| — global warming potential, (after end of life cycle) [CO2 eq] | -0.628 kg | | |
| Highest safety class achievable in safety mode | | | |
| Performance level according to ISO 13849-1 | PLe | | |
| Category according to ISO 13849-1 | 4 | | |
| • SIL acc. to IEC 61508 | SIL 3 | | |
| Probability of failure (for service life of 20 years and repair time | of 100 hours) | | |
| Low demand mode: PFDavg in accordance with SIL2 | < 1.00E-04, function test 1x per year | | |
| Low demand mode: PFDavg in accordance with SIL3 | < 1.00E-05, function test 1x per month | | |
| High demand/continuous mode: PFH in accordance with SIL2 | < 1.00E-08 1/h, function test 1x per year | | |
| — High demand/continuous mode: PFH in accordance | < 6.00E-09 1/h, function test 1x per month | | |

| horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. solo "c. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Condensation) from the first and right of the module -30 "C. = Timin (mil. Con | with SIL3 | | | |
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| • Indicational installation, max. • vertical installation, min. • vertical installation, max. • installation all thure above sea level. • installation all thure above sea level. • installation all thure above sea level. • With condensation, tested in accordance with IEC 60068-2-83. max. • With condensation, tested in accordance with IEC 60068-2-83. max. • With condensation, tested in accordance with IEC 60068-2-83. max. • With condensation, tested in accordance with IEC 60068-2-83. max. • With condensation, tested in accordance with IEC 60068-2-83. max. • Westionally active substances according to EN 60721-3-3. • To chemically active substances according to EN 60721-3-3. • To chemically active substances according to EN 60721-3-3. • To chemically active substances according to EN 60721-3-3. • To chemically active substances according to EN 60721-3-3. • To chemically active substances according to EN 60721-3-3. • To chemically active substances according to EN 60721-3-3. • To chemically active substances according to EN 60721-3-3. • To chemically active substances according to EN 60721-3-3. • To chemically active substances according to EN 60721-3-3. • To chemically active substances according to EN 60721-3-3. • To chemically active substances according to EN 60721-3-3. • To chemically active substances according to EN 60721-3-3. • To chemically active substances according to EN 60721-3-3. • To chemically active substances according to EN 60721-3-3. • To chemically active substances according to EN 60721-3-3. • To chemically active su | Ambient temperature during operation | | | |
| vertical installation, min. vertical installation allitude above sea level. Installation allitude above sea level. Installation allitude above sea level. Installation installation Vertical installation min. Installation installation min. Installation installation min. Installation installation min. Installation allitude above sea level. Installation installation Vertical installation min. Installation installation min. Installation installation min. Installation allitude above sea level. Installation installation min. Installation installation Installation installation min. Installation allitude above sea level. Installation allitude above sea level. Installation allitude above sea level. Installation min. Inst | horizontal installation, min. | -30 °C; = Tmin (incl. condensati | ion/frost) | |
| Installation attitude above sea level Installation attitude above sea level, max. Inhibitinal it temperature-barometric pressure-attitude Status terminally Inhibitinal it temperature-barometric pressure-attitude Status terminally Inhibitinal it temperature-barometric pressure-attitude Status temp | • horizontal installation, max. | | | |
| Altitude during operation relating to seal level Installation attitude above seal level, max. Ambient air temperature-barometric pressure-altitude Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) With condensation, tested in accordance with IEC 60068-2-38 max. Event in the condensation of frost (no commissioning in bedewed state), horizontal installation Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 795 hPs (-1 000 m +2 000 m) Timin Timax at 1 140 hPs 40 ms (-1 000 m) Timin Timax at 1 140 hPs 40 ms (-1 000 m) Timin Timax at 1 140 hPs 40 ms (-1 000 | vertical installation, min. | -30 °C; = Tmin | | |
| Installation altitude above see levelt, max. Ambient air temperature-barometric pressure-altitude Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timax at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timm at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timm at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timm at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timm at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timm at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timm at 1140 hPa 795 hPa (-1 000 m +2 000 m) Timm. Timm. Timm at 1140 hPa 795 hPa (-1 000 m) Timm. Timm. Timm at 1140 hPa 795 hPa (-1 000 m) Timm. Timm. Timm at 1140 hPa 795 hPa (-1 000 m) Timm. Timm. Timm at 1140 hPa 795 hPa (-1 | vertical installation, max. | 50 °C; = Tmax | | |
| Relative humidity - With condensation, tested in accordance with IEC 60088- 2-38, max. - Resistant to commercially available coolants and lubricants - Resistant to pommercially available coolants and lubricants - Re | Altitude during operation relating to sea level | | | |
| Relative humidity Nith condensation, tested in accordance with IEC 60068-2-23, max. Nesistance Coolants and lubricants Resistance Coolants and lubricants Resistant to commercially available coolants and lubricants I be in stationary industrial systems To be blogically 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 mechanically active substances according to EN 60721-3-3 To chemically active substances according to EN 60721-3-4 To be blogically active substances according to EN 60721-3-4 To be blogically active substances according to EN 60721-3-5 To mechanically active substances according to EN 60721-3-6 To mechanically active substances according to EN 60721-3-7 To mechanically active substances according to EN 60721-8 To mechanically active substances according to EN 60721-8 To mechanically active s | Installation altitude above sea level, max. | 2 000 m | | |
| With condensation, tested in accordance with IEC 6008- 2-38, max. Resistance Coolants and lubricants Resistant to commercially available coolants and lubricants Resistant to too mark the substances according to EN 60721-3-3 — to biologically 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 mechanically active substances according to EN 60721-3-6 — to themically 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 60721-3-7 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-7 — to mechanically active substances according to EN 60721-3-7 — to mechanically active substances according to EN 60721-3-7 — to mechanically active substances according to EN 60721-3-7 — to mechanically active substances according to E | Ambient air temperature-barometric pressure-altitude | Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) | | |
| 2-38, max Coolants and lubricants Resistant to commercially available coolants and lubricants | 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 mechanically 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 mechanically active substances according to EN 60721-3-3 — to biologically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-4 — to mechanically active substances according to EN 60721-3-4 — to mechanically active substances according to EN 60721-3-4 — to mechanically active substances according to EN 60721-3-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60854-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 6086 • Protection against fouling acc. to EN 60664-3 • Military testing according to ML-1460862. Amendment 7 • Qualification and Performance of Electrical insulating Compound for Printed Board Assemblies according to IPC-CC-830A Weight, approx. 90 g Sections 392 mid-14, 40968-2-52 (severity degrees 3); Yes; Class 3(sculuding trichlorethylene; harmful gas connentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level C3 (seit spray) and level LB3 (oii) Yes; Level CX group AR (excluding trichlorethylene; harmful gas connentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level C3 (seit spray) and level LB3 (oii) Yes; Class 2 for high reliability Yes; Class 3 (accluding trichlorethylene; harmful gas connentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level C3 (seit spray) and level LB3 (oii) Yes; Class 2 for high reliability Yes; Class 3 (accluding trichlorethylene; harmful gas connentrations up to the limits of EN 60721-3-3 cla | · · · · · · · · · · · · · · · · · · · | | frost (no commissioning i | n bedewed state), |
| - 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 - to mechanically active substances according to EN 60721-3-3 - 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 60721-3-6 - 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 subst | 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 mechanically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — 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 — Nos expand industrial process technology — Against chemically active substances acc. to EN 60664-2 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60664-4 and ANSI/ISA-7.04 Conformal coaling • Protection against fouling acc. to EN 60664-3 • Milliary testing according to MIL.1-46056C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-30A — Samples of Printed Board Assemblies according to IPC-CC-30A — Samples of Printed Board Assemblies according to IPC-CC-30A — Samples of Printed Board Assemblies according to IPC-CC-30A — Samples of Printed Board Assemblies according to IPC-CC-30A — Samples of Printed Board Assemblies according to IPC-CC-30A — Samples of Printed Board Assemblies according to IPC-CC-30A — Samples of Printed Board A | 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 to mechanically active substances according to EN 60721-3-3 Use on shipsids 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 60721-3-3 class 363 incl. sand, dust, * to chemically active substances according to EN 60721-3-3 class 363 incl. sand, dust, * to chemically active substances according to EN 60721-3-3 class 363 incl. sand, dust, * to chemically active substances according to EN 60721-3-3 class 363 incl. sand, dust, * to chemically active substances according to EN 60721-3-3 class 363 incl. sand, dust, * to chemically active substances according to EN 60721-3-3 class 363 incl. sand, dust, * to chemically active substances according to EN 60721-3-3 class 363 incl. sand, dust, * to chemically active substances according to EN 60721-3-3 class 363 incl. sand, dust, * to chemically active substances according to EN 60721-3-3 class 362 permissible); level CA group AIB (excluding trichiorethylene) for EN 60721-3-3 class 3C4 permissible); level CA group AIB (excluding trichiorethylene) for EN 60721-3-3 class 3C4 permissible); level CA group AIB (excluding trichiorethylene) for EN 60721-3-3 class 3C4 permissible); level CA group AIB (excluding trichiorethylene) for EN 60 | | Yes; Incl. diesel and oil droplets | s in the air | |
| ### Class 383 on request very many 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 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 60721-3-6 — 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 | Use in stationary industrial systems | | | |
| degree 3); * | | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna) Class 3B3 on request | | |
| 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 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/SA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60654-4 and ANSI/SA-71.04 * Coatings for printed circuit board assemblies acc. to EN 61080 • Protection against fouling acc. to EN 60664-3 • Military testing according to Mil1-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Width 20 mm Height 73 mm Depth egipts Weight, approx. 90 g assifications Version Classification Classification Classification Classification Classification Classification Classification Procedus 9, 1* Yes; Class 6B2 mold, fungal and dry rot spores (excluding protes point on Exclusive Sex Size Size Size Size Size Size Size Size | | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | | |
| Height - 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 - 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/SA-71.04 - Remark - Note regarding classification of environmental conditions acc. to EN 60654-4 and ANSI/SA-71.04 - Controllors acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 - 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 Width 20 mm - Tall Andrew Callings and dry rot spores (excluding trichlored) (aust.) 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; Class 3 (excluding trichlorethylene) Yes; Class 3 (excluding trichlorethylene) 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 6S3 incl. | | Yes; Class 3S4 incl. sand, dust, * | | |
| 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 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MILI-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A Width 20 mm 13 mm 20 ppth 21 mm 22 mensions Weight, approx. 90 g 23 siffications Version Classification eCiass 12 27-24-26-04 eCiass 9 17-24-26-04 eCiass 9 27-24-26-04 | Use on ships/at sea | | | |
| degree 3); Yes; Class 6S3 incl. sand, dust; * - 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 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! **Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against foulling acc. to EN 60664-3 *Military testing according to MIL-146058C, Amendment 7 A Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A *Modth 20 mm 73 mm Deepth 58 mm elgipts Weight, approx. 90 g **Ves; Class 2 for high reliability Yes; Class 3 (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) **The supplied plug covers must remain in place over the unused interfaces during operation! Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A **Conformal coating, Class A **Confo | | Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) | | |
| G0721-3-6 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 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 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-1-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Midth 20 mm 73 mm Depth 58 mm 90 g eClass 14 27-24-26-04 eClass 9, 1 27-24-26-04 eClass 9, 27-24-26-04 eClass 9, 27-24-26-04 eClass 9, 27-24-26-04 eClass 9, 27-24-26-04 | , | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | | |
| Against chemically active substances acc. to EN 60654-4 | 60721-3-6 | Yes; Class 6S3 incl. sand, dust | , * , | |
| G0854-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60864-3 • 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 mensions Width 20 mm 73 mm Depth elight Weight, approx. 90 g assifications Version Classification eClass 14 27-24-26-04 eClass 9, 1 27-24-26-04 eClass 9, 27-24-26-04 | | | | |
| and control systems acc. to 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) Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 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 Midth 20 mm Height 73 mm Depth 58 mm eClass Frose Class 14 27-24-26-04 eClass 9 27-24-26-04 eClass 8 27-24-26-04 | 60654-4 | Yes; Class 3 (excluding trichlorethylene) | | |
| - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating | | concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level | | |
| conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 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 Width 20 mm Height 73 mm Depth 58 mm eights Weight, approx. 90 g assifications Version Classification EClass 14 27-24-26-04 eClass 9, 1 27-24-26-04 eClass 9, 1 27-24-26-04 eClass 9 27-24-26-04 | Remark | | | |
| 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-1-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Width 20 mm Height 73 mm Depth 58 mm eights Weight, approx. 90 g assifications Version Classification eClass 14 27-24-26-04 eClass 9.1 27-24-26-04 eClass 9.1 27-24-26-04 eClass 9 27-24-26-04 | conditions acc. to EN 60721, EN 60654-4 and | | | |
| 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 Width 20 mm Height 73 mm Depth 90 g assifications Version Classification EClass 14 27-24-26-04 eClass 9.1 27-24-26-04 eClass 9.1 27-24-26-04 eClass 9 3 27-24-26-04 | | | | |
| 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 Midth 20 mm Height 73 mm Depth 6 Wight, approx. 90 g assifications Version Classification Classification Classification EClass 14 27-24-26-04 EClass 9.1 27-24-26-04 EClass 9 27-24-26-04 | Coatings for printed circuit board assemblies acc. to EN | Yes; Class 2 for high reliability | | |
| 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 Midth 20 mm Height 73 mm Depth 6 gly assifications Weight, approx. 90 g Sassifications Peclass 14 27-24-26-04 6 Class 9.1 27-24-26-04 6 Class 9 27-24-26-04 | Protection against fouling acc. to EN 60664-3 | Yes; Type 1 protection | | |
| Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Width 20 mm Height 73 mm Depth 8 mm eights Weight, approx. 90 g assifications Yersion Classification eClass 14 27-24-26-04 eClass 12 27-24-26-04 eClass 9.1 27-24-26-04 eClass 9 27-24-26-04 | | | essible during service life | |
| Width | Compound for Printed Board Assemblies according to IPC- | | | |
| Width | imensions | | | |
| The leight 73 mm 58 mm 58 mm 58 mm 59 mm | Width | 20 mm | | |
| Depth | | | | |
| Version Classifications Version Classification Classification Classification Classification Classification eClass 14 27-24-26-04 eClass 12 27-24-26-04 eClass 9.1 27-24-26-04 eClass 9 27-24-26-04 eClass 9 27-24-26-04 eClass 8 27-24-26-04 | | | | |
| Weight, approx. 90 g | · | | | |
| Version Classification | | 90 a | | |
| Version Classification eClass 14 27-24-26-04 eClass 12 27-24-26-04 eClass 9.1 27-24-26-04 eClass 9 27-24-26-04 eClass 8 27-24-26-04 | | ~~ y | | |
| eClass 14 27-24-26-04 eClass 12 27-24-26-04 eClass 9.1 27-24-26-04 eClass 9 27-24-26-04 eClass 9 27-24-26-04 eClass 8 27-24-26-04 | acomounding. | | Venete | Oleveria ii |
| eClass 12 27-24-26-04 eClass 9.1 27-24-26-04 eClass 9 27-24-26-04 eClass 8 27-24-26-04 | | | version | Classification |
| eClass 9.1 27-24-26-04 eClass 9 27-24-26-04 eClass 8 27-24-26-04 | | eClass | 14 | 27-24-26-04 |
| eClass 9 27-24-26-04 eClass 8 27-24-26-04 | | eClass | 12 | 27-24-26-04 |
| eClass 9 27-24-26-04 eClass 8 27-24-26-04 | | eClass | 9.1 | 27-24-26-04 |
| eClass 8 27-24-26-04 | | | | |
| | | | | |
| eClass 7.1 27-24-26-04 | | eClass | 8 | 27-24-26-04 |
| | | eClass | 7.1 | 27-24-26-04 |

| eClass | 6 | 27-24-26-04 |
|--------|----|-------------|
| ETIM | 9 | EC001599 |
| ETIM | 8 | EC001599 |
| ETIM | 7 | EC001599 |
| IDEA | 4 | 3566 |
| UNSPSC | 15 | 32-15-17-05 |

Approvals / Certificates

General Product Approval

EMV

<u>Miscellaneous</u>

Manufacturer Declaration









Functional Saftey

Marine / Shipping

Environment







last modified:

2/6/2025