6AG1136-6DC00-2CA0

Data sheet



SIPLUS ET 200SP F-DQ 8x24VDC/0.5A PP HF based on 6ES7136-6DC00-0CA0 with conformal coating, -30...+60 $^{\circ}$ C, fail-safe digital outputs Cat. 4, PL e (EN ISO 13849-1) up to SIL 3 (IEC 61508)

General information		
Product type designation	F-DQ 8x24VDC/0.5A PP HF	
Firmware version		
 FW update possible 	Yes	
usable BaseUnits	BU type A0	
Color code for module-specific color identification plate	CC02	
Product function		
I&M data	Yes; I&M0 to I&M3	
Supply voltage		
Rated value (DC)	24 V	
permissible range, lower limit (DC)	20.4 V	
permissible range, upper limit (DC)	28.8 V	
Reverse polarity protection	Yes	
Input current		
Current consumption (rated value)	75 mA; without load	
Current consumption, max.	21 mA; From the backplane bus	
output voltage / header		
Rated value (DC)	24 V	
Power		
Power available from the backplane bus	70 mW	
Power loss		
Power loss, typ.	3 W	
Address area		
Address space per module		
• Inputs	6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA	
Outputs	6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA	
Hardware configuration		
Automatic encoding		
Electronic coding element type F	Yes	
Digital outputs		
Type of digital output	Transistor	
Number of digital outputs	8	
Digital outputs, parameterizable	Yes	
Short-circuit protection	Yes	
Response threshold, typ.	Min. 0.7 A	
Open-circuit detection	No	
Limitation of inductive shutdown voltage to	Typ39 V	
Controlling a digital input	Yes	

Outliebing and the still	
Switching capacity of the outputs	0.5.4
with resistive load, max.	0.5 A
on lamp load, max.	2 W
Load resistance range	40.0
• lower limit	48 Ω
• upper limit	12 000 Ω
Output voltage	041/11 / 0.510
• for signal "1", min.	24 V; L+ (-0.5 V)
Output current	0.5.4
• for signal "1" rated value	0.5 A
• for signal "0" residual current, max.	0.5 mA
Switching frequency	0011 0 1: 1
with resistive load, max.	30 Hz; Symmetrical
with inductive load, max.	0.1 Hz; according to IEC 60947-5-1, DC-13, symmetrical
with capacitive load, max.	2 Hz; Symmetrical
• on lamp load, max.	10 Hz; Symmetrical
Total current of the outputs	
Current per channel, max.	0.5 A; note denating data in the manual
Current per module, max. Tatal current of the particular (a particular)	3 A; note derating data in the manual
Total current of the outputs (per module)	
horizontal installation	
— up to 40 °C, max.	3 A; note derating data in the manual
— up to 50 °C, max.	2.5 A; note derating data in the manual
— up to 60 °C, max.	2 A; note derating data in the manual
— up to 70 °C, max.	2 A; note derating information in the manual; only with configured slots to the left and right of the module
vertical installation	to allo lott alla ligitto i allo lilioadio
— up to 50 °C, max.	2 A; note derating data in the manual
Cable length	
• shielded, max.	100 m
• unshielded, max.	100 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	No
Alarms	
Diagnostic alarm	Yes
Diagnostics indication LED	
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
Channel status display	Yes; green LED
for channel diagnostics	Yes; red LED
• for module diagnostics	Yes; green/red DIAG LED
Potential separation	
Potential separation channels • between the channels	No
between the channels and backplane bus	Yes
·	Yes No
 between the channels and the power supply of the electronics 	INO
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	Yes
Highest safety class achievable in safety mode	100
Performance level according to ISO 13849-1	PLe
	Cat. 4
 Category according to ISO 13849-1 SIL acc. to IEC 61508 	SIL 3
Probability of failure (for service life of 20 years and repa	
Low demand mode: PFDavg in accordance with SIL3	< 6.00E-05

Ambient conditions Arbient interperature during operation • horizontal installation, min. • horizontal installation, min. • vertical installation, min. • white installation arbitude above seal evel. • Installation affitude above seal evel, max. • Ambient air temperature-barometric pressure-altitude • with condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolents and lubricants — Resistant to commercially available coolents and lubricants — Resistant to commercially available coolents and lubricants — Horizonal and the above seal evel, max. • Ambient air temperature-barometric pressure-altitude • with condensation, tested in accordance with IEC 60068-2-38, max. Resistance — Coolents and lubricants — Resistant to commercially available coolents and lubricants — To biologically active substances according to EN 60721-3-3 — to themically active substances according to EN 60721-3-3 — Against mechanical environmental conditions acu. to EN 60721-3-3 — Against mechanical environmental conditions acu. to EN 60721-3-6 — Against mechanical environmental conditions acu. to EN 60721-3-6 — to themically active substances according to EN 60721-3-6 — to themically active substances according to EN 60721-3-6 — to themically active substances according to EN 60721-3-6 — to themically active substances according to EN 60721-3-6 — to themically active substances according to EN 60721-3-6 — to themically active substances according to EN 60721-3-6 — to themically active substances according to EN 60721-3-6 — to themically active substances according to EN 60721-3-6 — to themically active substances according to EN 60721-3-6 — to themically active substances according to EN 60721-3-6 — to themically active substances according to EN 60721-3-6 — to themically active substances according to EN 60721-3-6 — to themically activ	High demand/continuous mode: PFH in accordance with SIL3	< 2.00E-09 1/h
Notizontal installation, min. Notizontal installation, max. Notizontal installation. Notizontal i	Ambient conditions	
Notizontal installation, min. Notizontal installation, max. Notizontal installation. Notizontal i	Ambient temperature during operation	
• Indicated installation, min. • Vertical installation altitude above sea level, min. • Analysis of the installation altitude above sea level, min. • Analysis of the installation altitudes > 2 000 m, see entry ID. 109771992 altitude Relative humidity • With condensation, tested in accordance with IEC cooleans and fubricants — Resistant to commercially available coolants and fubricants — Resistant to commercially available coolants and fubricants — In biologically active substances according to EN 80721-3-3 — Lo mentically active substances according to EN 80721-3-3 — Lo mentically active substances according to EN 80721-3-3 — Against mechanical environmental conditions acc. to EN 80721-3-3 — Against mechanical environmental conditions in groutiure acc. to ISO 15003 — Lo mentically active substances according to EN 80721-3-6 — Against mechanical environmental conditions in groutiure acc. to ISO 15003 — Lo mentically active substances according to EN 80721-3-6 — Against mechanically active substances according to EN 80721-3-6 — Against mechanically active substances according to EN 80721-3-6 — Against mechanically active substances according to EN 80721-3-6 — Against mechanically active substances according to EN 80721-3-6 — Against mechanically active substances according to EN 80721-3-6 — Against mechanically active substances according to EN 80721-3-6 — Against mechanically active substances according to EN 80721-3-6 — Against mechanically active substances according to EN 80721-3-6 — Against mechanically active substances according to EN 80721-3-6 — Against mechanically activ		-30 °C; = Tmin (incl. condensation/frost)
• whitcal installation, max • Ambient air temperature-barometric pressure-attitude • Installation altitude above sea level, max. • Ambient air temperature-barometric pressure-attitude • With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants — Resistant to commercially available 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 60721-3-3 — Against mechanical environmental conditions acc. to EN 60721-3-3 Use on land craft, rail vehicles and special-purpose vehicles — Against mechanical environmental conditions in agriculture acc. to ISO 15003 Use on shipsist see — to biologically active substances according to EN 60721-3-5 — against mechanical environmental conditions in agriculture acc. to ISO 15003 Use on shipsist see — to biologically active substances according to EN 60721-3-6 — to enhemically active substances according to EN 60721-3-6 — to enhemically active substances according to EN 60721-3-6 — to enhemically active substances according to EN 60721-3-6 — to enhemically active substances according to EN 60721-3-6 — Lapsats mechanical environmental conditions acc. to EN 60721-3-6 — Pagainst mechanical environmental conditions acc. to EN 60721-3-6 — Pagainst mechanical environmental conditions acc. to EN 60721-3-6 — Pagainst mechanical environmental conditions acc. to EN 60721-3-6 — Pagainst mechanical environmental conditions acc. to EN 60721-3-6 — Pagainst mechanical environmental conditions acc. to EN 60721-3-6 — Pagainst mechanical environmental conditions acc. to EN 60721-3-6 — Pagainst mechanical environmental conditions acc. to EN 60721-3-6 — Pagainst mechanical environmental conditions acc. to EN 60721-3-6 — Pagainst mechanical environmental conditions acc. to EN 60721-3-6 — Pagainst mechanical environmental conditions a	horizontal installation, max.	60 °C; = Tmax; +70 °C with configured empty slots to the left and right
Installation altitude above sea level, max.	 vertical installation, min. 	-30 °C; = Tmin
Installation altitude above sea level, max. Another lat temperature-barometric pressure-altitude Retailable humidity With condensation, tested in accordance with IEC 80066-2-30, max. Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants — Resistant to commercially available 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 mechanicall environmental conditions acc. to EN 60721-3-3 — against mechanical environmental conditions acc. to EN 60721-3-3 — against mechanical environmental conditions in approblems acc. to EN 60721-3-6 — to environmental conditions acc. to EN 60721-3-6 — Lo environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Lo environmental conditions acc. to EN 60721-3-6 — Against mechanically active substances according to EN 60721-3-6 — Lo environmental conditions acc. to EN 60721-3-6 — Lo environmental conditions acc. to EN 60721-3-6 — Against mechanically active substances according to EN 60721-3-6 — Lo environmental conditions acc. to EN 60721-3-6 — Against mechanically active substances according to EN 60721-3-6 — Lo environmental conditions acc. to EN 60721-3-6 — Against mechanically active substances according to EN 60721-3-6 — Against mechanically active substances according to EN 60721-3-6 — Against mechanically active substances according to EN 60721-3-6 — Against mechanically active substances ac	vertical installation, max.	50 °C; = Tmax
Ambient air temperature-barometric pressure-ailltude Relative humidity * With condensation, tested in accordance with IEC 80068-2-80, max. Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants Use in stationary industrial systems — to biologically active substances according to EN 80721-3-3 — to chemically active substances according to EN 80721-3-3 — to mechanically active substances according to EN 80721-3-3 — Against mechanical environmental conditions acc. to EN 80721-3-3 — against mechanical environmental conditions acc. to EN 60721-3-5 — against mechanical environmental conditions acc. to EN 60721-3-6 — to chemically active substances according to EN 80721-3-6 — to chemically active substances according to EN 80721-3-6 — to chemically active substances according to EN 80721-3-6 — to mechanically active substances according to EN 80721-3-6 — to mechanically active substances according to EN 80721-3-6 — to mechanically active substances according to EN 80721-3-6 — to mechanically active substances according to EN 80721-3-6 — to mechanically active substances according to EN 80721-3-6 — to mechanically active substances according to EN 80721-3-6 — To mechanically active substances according to EN 80721-3-6 — To mechanically active substances according to EN 80721-3-6 — To mechanically active substances according to EN 80721-3-6 — To mechanically active substances according to EN 80721-3-6 — To mechanically active substances according to EN 80721-3-6 — Conditions acc. to EN 80721-5-7 — Against mechanical environmental conditions acc. to EN 80721-5-7 — Against mechanical environmental conditions acc. to EN 80721-5-7 — Against mechanical environmental conditions acc. to EN 80721-5-7 — Against mechanical environmental conditions acc. to EN 80721-5-7 — Against mechanical environmental conditions acc. to EN 80721-5-7 — Against mechanical environmental conditions acc. to EN 80721-5-7 — Against mechanical environmental conditions acc. to EN 80721-5-7 — Against mechani	Altitude during operation relating to sea level	
Relative humidity • With condensation, tested in accordance with IEC 60082-2-38, max Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants — Resistant to commercially available coolants and lubricants — Is 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 — to mechanicall environmental conditions acc. to EN 60721-3-3 — Against mechanical environmental conditions acc. to EN 60721-3-3 Use on land craft, rail vehicles and special-purpose vehicles — Against mechanical environmental conditions acc. 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 benically 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 60721-5-6 — to mechanically active s	 Installation altitude above sea level, max. 	
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Resistance Coolants and lubricants Resistant to commercially available 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 Against mechanical environmental conditions acc. to EN 60721-3-5 Against mechanical environmental conditions in agriculture acc. to 150 15003 Use on ships/at sea to biologically active substances according to EN 60721-3-6 Lo chemically active substances according to EN 60721-3-6 Against mechanical environmental conditions in agriculture acc. to EN 60721-3-6 Lo chemically active substances according to EN 60721-3-6 Against mechanical environmental conditions acc. to EN 60721-8 Against mechanical environmental co	•	
Coolants and lubricants	60068-2-38, max.	
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EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — Against mechanical environmental conditions acc. to EN 60021-3-3 Use on land craft, rail vehicles and special-purpose vehicles — Against mechanical environmental conditions and special-purpose vehicles — Against mechanical environmental conditions acc. to EN 60721-3-5 — against mechanical environmental conditions in agriculture acc. 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 — Against mechanical environmental conditions acc. to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — To mechanically active substances according to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Note regarding classification of environmental conditions acc. to EN 60721-3-7 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60684-3 • Protection against fouling acc. to	·	
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EN 60721-3-3 - Against mechanical environmental conditions acc. to EN 60721-3-3 Use on land craft, rail vehicles and special-purpose vehicles - Against mechanical environmental conditions acc. to EN 60721-3-5 - against mechanical environmental conditions acgriculture acc. to ISO 15003 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 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60684-3 - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-3 - Military testing according to MIL-1-4608C, Amendment 7 - Qualification and Performance of Electrical Insulating Compound for	EN 60721-3-3	(severity degree 3); *
acc. to EN 60721-3-3 Use on land craft, rail vehicles and special-purpose vehicles - Against mechanical environmental conditions acc. to EN 60721-3-5 - against mechanical environmental conditions in agriculture acc. to ISO 15003 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 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against themically active substances acc. to EN 60721-3-6 - Against mechanically active substances acc. to EN 60721-3-6 - Against mechanically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamically active substances acc. to EN 60721-3-6 - Against chamical	EN 60721-3-3	
- Against mechanical environmental conditions acc. to EN 60721-3-6 - against mechanical environmental conditions in agriculture acc. to ISO 15003 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 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against chemically active substances according to EN 60721-3-6 - 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	acc. to EN 60721-3-3	6AA00-0AA0)
acc. to EN 60721-3-5 — against mechanical environmental conditions in agriculture acc. to ISO 15003 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 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against chemically active substances acc. to EN 60721-3-6 — Against chemically active substances acc. to EN 60721-3-6 — Against chemically active substances acc. to EN 60721-3-6 — Against chemically active substances acc. to EN 60721-3-6 — Against chemically active substances acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanically active substances according to EN 60721-3-6 — Against mechanically active substances according to EN 60721-3-6 — Against mechanically active substances according to EN 60721-3-6 — Against mechanically active substances according to EN 60721-3-6 — Against mechanically active substances according to EN 60721-3-6 — Against mechanically active substances according to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to EN 60721-3-6 ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies 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 Dimensions Width 15 mm 6AA00-0AA0) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B2 mold, fungal and		
agriculture acc. to ISO 15003 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 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — 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-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A (AGG1193-6AA00-0AA0) 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 E	acc. to EN 60721-3-5	6AA00-0AA0)
- 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 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against chemically active substances acc. 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 MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Dimensions Width - To to themically active substances according to EN 60664-3 (Severity degree 3); * Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fanna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6B3 incl. sand, dust; * Yes; Class 6B2 mold, fungal and dry rot spores (severity degree 3); * Yes; Class 6B3 incl. sand, dust; * Yes; Class 6B2 mold, fungal and dry rot spores. Against chemically acc. to EN	agriculture acc. to ISO 15003	
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 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 6064-4 — 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	·	V 01 000 11 (1 1 1 1 1 1 1 1 1 1 1 1 1 1
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EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — 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-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Dimensions Width Height Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0) Yes; Class 3 (excluding trichlorethylene) Yes; Class 2 fon high reliability Yes; Class 2 for high reliability Yes; Class 2 for high reliability Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A	EN 60721-3-6	(severity degree 3); *
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-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Dimensions Width Height Height Yes; Class 3 (excluding trichlorethylene) Yes; Class 3 (excluding trichlorethylene) Yes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene) and interfaction and performance and permissible); and the limits of EN 60721-3-3 class 3C4 permissible);	EN 60721-3-6	
— 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-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Dimensions Width Height Yes; Class 3 (excluding trichlorethylene) Yes; Class 2 for up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) Yes; Class 2 for high reliability Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A 15 mm 73 mm	acc. to EN 60721-3-6	
EN 80654-4 — 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! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * 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; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A * Yes; Conformal coating, Class A		Voc. Class 2 (avaluding tricklersthylens)
measuring 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 Dimensions Width Height 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	EN 60654-4	
 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 Dimensions * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! 	measuring and control systems acc. to ANSI/ISA-	concentrations up to the limits of EN 60721-3-3 class 3C4 permissible);
conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 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 Dimensions Width 15 mm Height 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	Remark	
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 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 Dimensions Width Height Yes; Class 2 for high reliability Yes; Class 2 for high reliability Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A 		
 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 Height Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A To mm To mm To mm To mm 		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 Width Height Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A To mm To mm To mm To mm 	 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Dimensions Width 15 mm Height 73 mm	 Military testing according to MIL-I-46058C, 	
Width 15 mm Height 73 mm	Insulating Compound for Printed Board Assemblies	Yes; Conformal coating, Class A
Height 73 mm	Dimensions	
	Width	15 mm
	Height	73 mm
Depth 58 mm	Depth	58 mm

Weights	
Weight, approx. 48 g	
last modified: 0/27/2021	R ₂