SIEMENS

Data sheet

SIPLUS HMI MTP700 Unified Comfort, with conformal coating based on 6AV2128-3GB06-0AX1



Figure similar

1 50 H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
General information	
Product type designation	MTP700 Unified Comfort
based on	6AV2128-3GB06-0AX1-Z A06+S00 (A5E51779624)
Display	
Design of display	TFT
Screen diagonal	7 in
Display width	152.4 mm
Display height	91.4 mm
Number of colors	16 777 216
Resolution (pixels)	
 Horizontal image resolution 	800 pixel
Vertical image resolution	480 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	50 000 h; At 25°C
Backlight dimmable	Yes; 5-100 %
Control elements	
Keyboard fonts	
 Numeric keyboard 	Yes; Onscreen keyboard
alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
 Design as touch screen 	Yes
 Design as multi-touch screen 	Yes
Installation type/mounting	
Mounting position	vertical
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	0.45 A
Current consumption, max.	1 A
Starting current inrush I²t	0.5 A ² ·s
Memory	
Flash	Yes

RAM	Yes
Type of output	
Acoustics	
Buzzer	Yes
Speaker	No
Time of day	110
Clock	
Hardware clock (real-time)	Yes
Software clock	Yes
• retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	. 30
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 422 interfaces	0; together with RS 485
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2
Industrial Ethernet	
Industrial Ethernet status LED	2
Number of ports of the integrated switch	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Redundancy mode	
Media redundancy	
— MRP	Yes
•	Yes
— MRP	Yes
— MRP	Yes
— MRP EMC Emission of radio interference acc. to EN 55 011 ◆ Limit class A, for use in industrial areas	
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas	Yes
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection	Yes No
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas	Yes
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front)	Yes No
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front)	Yes No
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear)	Yes No IP65 IP20
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front	Yes No IP65 IP20 Yes
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front	Yes No IP65 IP20 Yes
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use	Yes No IP65 IP20 Yes No
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions	Yes No IP65 IP20 Yes No
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use	Yes No IP65 IP20 Yes No
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation	Yes No IP65 IP20 Yes No Yes No
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation)	Yes No IP65 IP20 Yes No
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min.	Yes No IP65 IP20 Yes No Yes No O °C; = Tmin
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle)	Yes No IP65 IP20 Yes No Yes No O °C; = Tmin 50 °C; = Tmax
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max.	Yes No IP65 IP20 Yes No Yes No O °C; = Tmin
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, min.	Yes No IP65 IP20 Yes No Yes No O °C; = Tmin 50 °C; = Tmax O °C; = Tmin
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, min. — At maximum tilt angle, max.	Yes No IP65 IP20 Yes No Yes No O °C; = Tmin 50 °C; = Tmax 0 °C; = Tmin 40 °C; = Tmax
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, min. — At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, min.	Yes No IP65 IP20 Yes No Yes No O °C; = Tmin 50 °C; = Tmax O °C; = Tmin
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, min. — At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, min. — For vertical installation, min. — For vertical installation, min. — For vertical installation, max.	Yes No IP65 IP20 Yes No Yes No O °C; = Tmin 50 °C; = Tmax 0 °C; = Tmin 40 °C; = Tmin
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, min. — At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, min. — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle, portrait format)	Yes No IP65 IP20 Yes No Yes No O °C; = Tmin 50 °C; = Tmax O °C; = Tmax 0 °C; = Tmin 40 °C; = Tmax
EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle, min. — At maximum tilt angle, min. — At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle, portrait format) — For vertical installation, max. Operation (max. tilt angle, portrait format) — At maximum tilt angle, min.	Yes No IP65 IP20 Yes No Yes No O °C; = Tmin 50 °C; = Tmax O °C; = Tmax 0 °C; = Tmin 40 °C; = Tmax 0 °C; = Tmin 70 °C; = Tmin 70 °C; = Tmin 70 °C; = Tmin
— MRP EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, min. — At maximum tilt angle, max. Operation (vertical installation, mortrait format) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle, portrait format) — For vertical installation, max. Operation (max. tilt angle, portrait format) — At maximum tilt angle, min. — At maximum tilt angle, min. — At maximum tilt angle, min. — At maximum tilt angle, min.	Yes No IP65 IP20 Yes No Yes No O °C; = Tmin 50 °C; = Tmax O °C; = Tmin 40 °C; = Tmax
EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle, min. — At maximum tilt angle, min. — At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle, portrait format) — For vertical installation, max. Operation (max. tilt angle, portrait format) — At maximum tilt angle, min.	Yes No IP65 IP20 Yes No Yes No O °C; = Tmin 50 °C; = Tmax O °C; = Tmax 0 °C; = Tmin 40 °C; = Tmax 0 °C; = Tmin 70 °C; = Tmin 70 °C; = Tmin 70 °C; = Tmin

* max. 60 °C * Ambide during operation resiting to see level		00.00
• Anbient air temperature-barrometric pressure-altitude • Anbient air temperature-barrometric pressure-barrometric pressure-barromet		60 °C
Ambient air temperature barometric pressure-altitude 1 min. Timax at 114 bit Pile _ 725 bit Pile (1000 m _ +2000 m) 2 min. (Timax 20 k) at 688 hite _ 5400 m _ +3500 m) 4 min. (Timax 20 k) at 688 min. (Timax 20 k) at		
Relative humidity * With condensation, tested in accordance with IEC 00088- 2-36, max. **Proceedings of lubricants - Resistant to commercially available codents and lubricants - To brodigically active substances according to EN 60721-34 - Learn shipsiat less - To bremfully active substances according to EN 60721-34 - Learn shipsiat less - To be continued a commercial conditions acc. to EN 60731-34 - Learn shipsiat less - To be commercially active substances according to EN 60721-34 - Learn shipsiat less - To be commercially active substances according to EN 60721-34 - Learn shipsiat less - To be commercially active substances according to EN 60721-34 - Learn shipsiat less - To be commercially active substances according to EN 60721-34 - Learn shipsiat less - To be commercially active substances according to EN 60721-34 - Learn shipsiat less - To be commercially active substances according to EN 60721-34 - Learn shipsiat less - Learn ship		
a 1688 PR 540 hr (a : 3 000 m + 3 000 m.) * With condensation, tested in accordance with IEC 60088- 2-38 mas. 2-38 mas. 2-38 mas. Cocionis and Judiciants	 Ambient air temperature-barometric pressure-altitude 	
# With condensation, tested in accordance with IEC 60088- 2-38, max. Possistance Coclaints and lubricants — Resistant to commercially available coolants and lubricants — Resistant to commercially available coolants and lubricants — The biologically 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 behanically active substances according to EN 60721-3-3 — to behanically 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 60721-3-7 (Secondary according to EN 60721-3-6) Usage in industrial propers to the initial strain of EN 60721-3-7 (Secondary according to EN 60721-3-7 (Secondary		
2-38 max. presently, horizontal at vertical mounting position Coclaints and Libricants — Residant to commercially available coolants and Libricants — Residant to commercially available coolants and Libricants — 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 60721-3.6 — To horizontally 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 60664-4 — Environmental conditions acc. to EN 60664-4 — Environmental conditions acc. to EN 60664-4 — Note regarding classification of environmental conditions acc. to EN 60721-EN 60664-4 and ANSIISA-71.04 Conformal coating • Coatings for printed format board assemblies acc. to EN 60664-3 • Military testing according to MIL-140565C, Amendment 7 • Cualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IP-C 6080A Operating systems propretary Ves Conformal coating Percess value default (mpth possible Ves Process value default (mpth possible Ves • Wind Culified Combot Engineering (TIA Portal) • Wind Ves • Wind Culified Combot Engineering (TIA Portal) • Wind Ves • Wind Culified Combot Engineering (TIA Portal) • Wind Ves	Relative humidity	
### Present Noticontal at vertical mounting position Coolents and lubricants Coolents and lubricants Present Noticontal at vertical mounting position	With condensation, tested in accordance with IEC 60068-	100 %; RH incl. condensation/frost (no commissioning when condensation
Collents and lubricants Residently commercially available coolants and lubricants. Use in stationary; industrial systems - to biologically active substances according to EN official systems of the property of the stationary; industrial systems - to biologically active substances according to EN official systems of the property of the stationary; industrial systems of the property of the stationary; industrial systems of the property of the property of the stationary; industrial systems of the property		
- Resistant to commercially available coolants and lubricants Use in stationary industrial systems - to biologically active substances according to EN 67721-3-3 - to chemically active substances according to EN 67721-3-3 - to chemically active substances according to EN 67721-3-3 - to mechanically active substances according to EN 67721-3-3 - to mechanically active substances according to EN 67721-3-3 - to substances according to EN 67721-3-3 -	Resistance	
Libricanis Lib	Coolants and lubricants	
Use in stationary industrial systems - to biologically active substances according to EN 60721-3-3 - to themselve 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 shippilat sea - 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 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 - Environmental conditions for process, measuring and control systems acc. to EN 60721, EN 60824-4 and ANSI/ISA-71.04 - Conditional conditions acc. to EN 60721, EN 60824-4 and ANSI/ISA-71.04 - Conditional conditions acc. to EN 60721, EN 60824-4 and ANSI/ISA-71.04 - Conditional conditions acc. to EN 6064-3 - Nillitary testing according to MIL-146686C, Amendment 7 - Couldings for printed circuit board assemblies according to IPC-60-808A - Protection against fouling acc. to EN 6064-3 - Nillitary testing according to MIL-146686C, Amendment 7 - Couldings of printed circuit board assemblies according to IPC-60-808A - Protection against fouling acc. to EN 6064-3 - Nillitary testing according to MIL-146686C, Amendment 7 - Ves Scooloration of coating possible during service life - Ves Configuration and Performance o		Yes; Incl. diesel and oil droplets in the air
Class 3B3 on request + 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 biologically 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 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 - Against chemically active substances according to EN 60721-3-6 - Against chemically active substances according to EN 60721-3-7 - Environmental conditions for process. measuring and control systems acc. to EN 60721-3-7 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60584-4 and ANSI/ISA-71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60584-4 and during operation against fouling acc. to EN 60721, EN 60584-4 and during operation against fouling according to MIL-1-40556, Amendment 7 - Qualification and Performance of Electrical Insulating Composition of Printed Based Assemblies according to IPC- - Process value deplay (output) - Yes - Casangs for printed Comfort Engineering (TIA Porta	· · · ·	Vac Olars ODO stall formula and drawater area (with the susantial afficiency)
degree 3),*		· · · · · · · · · · · · · · · · · · ·
Use on shipsdat sea		
Use on ships/at see		Yes; Class 3S4 incl. sand, dust, *
60721-3-6 — to chemically active substances according to EN 60721-3-8 — to mechanically active substances according to EN 60721-3-8 — to mechanically active substances according to EN 60721-3-8 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 reparding disselfication of environmental conditions for process, measuring and control systems acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coasing • 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 Pinted Board Assemblies according to IPC-C-330A Operating systems proprietary configuration / header Message indicator Alam system (incl. buffer and acknowledgment) — Yes Process value display (output) — Yes Process value default (input) possible — WinCC Unified Comfort Engineering (TIA Portal) — Yes Languages • Number of online/runtime languages — Survice Languages • Languages • Calindro Winfor • Winf	·	W 01 000 U.S. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
to chemically 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 60554-4 Environmental conditions for process, measuring and control systems acc. to ANSI/SA-71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 **The supplied plug covers must remain in place over the unused interfaces during operation! **Yes: Class 2 for high reliability **Yes: Class 2 for high reliability **Yes: Type 1 protection **Yes: Type 1 protection **Yes: Class 3 fexcluding prichlorethylene; harmful gas **Yes: Type 1 protection **Yes: Type 1 protection **Yes: Type 1 protection **Yes: Type 1 protection **Yes: Class 3 (excluding trichlorethylene) **Yes: Class 4 (excluding trichlorethylene) **Yes: Class 5 (excluding trichlorethylene) **Yes: Class 5 (excluding trichlore		Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
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 ANSUISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSUISA-71.04 Conformal coading • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60684-3 • Military testing according to MILI-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-330A Operating systems proprietary Configuration / header Message indicator Message indicator Message indicator Ves: Class 3 (excluding trichiorethylene) Yes; Class 3 (excluding trichiorethylene) Yes; Class 4 (excluding trichiorethylene; 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; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A Yes; Class 2 for high reliability Yes; Class		Yes: Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity
Usage in industrial process technology - Against chemically active substances acc. to EN 6054-4 - 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-146056C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A Operating systems proprietary Message indicator Message indicator Message indicator Message indicator Ves Process value display (output) • WinCC Unified Comfort Engineering (TIA Portal) • WinCC Unified PC Engineering (TIA Portal) • Number of online/runtime languages • Number of online/runtime languages • Number of online/runtime languages • Languages Project • WincC Unified Libraries • Winter Witter Ves Yes Class 3 (excluding trichlorethylene) Yes; Class 3 (excluding trichlorethylene) Yes; Class 3 (excluding trichlorethylene; harmful gas concentrations up to the limits of En 80721-3-3 class 3C4 permissible), level LC3 (salt spray) and level LB3 (oil) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of En 80721-3-3 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! * 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 occ. to EN 60721, EN 60754, EN 60754		
Usage in industrial process technology - Against chemically active substances acc. to EN 6054-4 - 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-146056C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A Operating systems proprietary Message indicator Message indicator Message indicator Message indicator Ves Process value display (output) • WinCC Unified Comfort Engineering (TIA Portal) • WinCC Unified PC Engineering (TIA Portal) • Number of online/runtime languages • Number of online/runtime languages • Number of online/runtime languages • Languages Project • WincC Unified Libraries • Winter Witter Ves Yes Class 3 (excluding trichlorethylene) Yes; Class 3 (excluding trichlorethylene) Yes; Class 3 (excluding trichlorethylene; harmful gas concentrations up to the limits of En 80721-3-3 class 3C4 permissible), level LC3 (salt spray) and level LB3 (oil) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of En 80721-3-3 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! * 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 occ. to EN 60721, EN 60754, EN 60754	— to mechanically active substances according to EN	Yes; Class 6S3 incl. sand, dust; *
- Against chemically active substances acc. to EN 60684-4 - Environmental conditions for process, measuring and control systems acc. to ANS/I/SA-71.04 Remark - Note regarding classification of environmental conditions ace, to EN 60721, EN 60684-4 and ANS/I/SA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 6108 • Protection against fouling acc. to EN 60684-3 • Military testing according to MIL-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CO-28-30 Operating systems proprietary Message indicator Alam system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible • WinCC Unified Comfort Engineering (TIA Portal) • WinCC Unified PC Engineering (TIA Portal) • Number of online/runtime languages • Languages • Languages • Languages • Languages • Languages • Languages • Languages • Languages • Wirter Yes Yes Yes Yes Yes Yes Yes Y	60721-3-6	
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	Usage in industrial process technology	
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 foulling acc to EN 60664-3 • Military testing according to MIL-146058C, Amendment 7 • Qualification and Performance of Electrical insulating Compound for Printed Board Assemblies according to IPC-C-330A Operating systems proprietary Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible • WinCC Unified Comfort Engineering (TIA Portal) • WinCC Unified Comfort Engineering (TIA Portal) • WinCC Unified Comfort Engineering (TIA Portal) • WinCC Unified PC Engineering (TIA Portal) • Number of online/runtime languages • Languages • Languages per project Pros • Writer Yes Configuration Syptions • Writer Yes Proces Pros Proces • WincC Unified PC Engineering (TIA Portal) • Ves Project languages • Languages • Languages • Languages per project Pros • Wirter Yes Pros Pros Pros • Wirter Pros P		Yes; Class 3 (excluding trichlorethylene)
and control systems acc. to ANSI/ISA-71.04 Remark		Voc. Lovel CV group A/D (evaluding triplerethylene; bermful geo
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-800A Operating systems proprietary Yes configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value default (input) possible Process value default (input) possible • WinCC Unified Comfort Engineering (TIA Portal) • WinCC Unified PC Engineering (TIA Portal) • Unime Inanguages • Languages • Languages • Languages per project 2 More Applications/options • Writer *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! *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 plus in the full supplied plug covers must remain in place over the unused interfaces during plus in the full supplied plus plus plus plus plus plus plus plus		
conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-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 Operating systems proprietary Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Process value default (input) possible Process value default (input) possible • WinCC Unified Comfort Engineering (TIA Portal) • WinCC Unified Comfort Engineering (TIA Portal) • Number of online/runtime languages • Languages • Languages • Languages per project Jes Prose Writer August Standard	Remark	
ANSJ/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-146058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Operating systems proprietary Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management WinCC Unified Comfort Engineering (TIA Portal) WinCC Unified PC Engineering (TIA Portal) WinCC Unified PC Engineering (TIA Portal) Auguages Number of online/runtime languages Number of online/runtime languages Languages Languages Languages Number of online/runtime languages Nessage indicator Again system (incl. buffer and acknowledgment) Yes Configuration software WinCC Unified DC Engineering (TIA Portal) Yes Languages Number of online/runtime languages New Yes Applications/options Wirter Nes; Class 2 for high reliability Yes; Class 2 for high reliability Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Class 2 for high reliability Yes; Conformal coating possible during service life Yes; Conformal coating, Class A Yes; Conformal coating, Class A Yes; Conformal coating, Class A Yes; Confor		
Conformal coating		during operation!
Protection against fouling acc. to EN 60664-3 Protection against fouling acc. to EN 60664-3 Military testing according to MIL-146058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Operating systems proprietary Yes Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software WinCC Unified Comfort Engineering (TIA Portal) WinCC Unified PC Engineering (TIA Portal) Possible Ianguages Online languages Number of online/runtime languages Languages Project Functionality under WinCC Unified Libraries Yes Applications/options Writer	Conformal coating	
Protection against fouling acc. to EN 60664-3 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 Operating systems proprietary Yes configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software WinCC Unified Comfort Engineering (TIA Portal) WinCC Unified PC Engineering (TIA Portal) WinCC Unified PC Engineering (TIA Portal) Possible Auguages Online languages Number of online/runtime languages Project languages Languages Yes Applications/options Writer Yes Writer	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 Operating systems proprietary Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Onlinguration software WinCC Unified Comfort Engineering (TIA Portal) WinCC Unified PC Engineering (TIA Portal) WinCC Unified PC Engineering (TIA Portal) Project Ianguages Online languages Languages Languages project Functionality under WinCC Unified Libraries Yes Applications/options Writer Wes Yes Yes Yes Yes Proses Value display (output) Yes Sale Sale Sale Sale Sale Sale Sale Sale	61086	
Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Operating systems proprietary Yes Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Yes Process value display (output) Yes Process value default (input) possible Yes Recipe management Yes Configuration software WinCC Unified Comfort Engineering (TIA Portal) Yes Languages Online languages Number of online/runtime languages Languages Project Ianguages Project Languages Project Libraries Yes Applications/options Writer Wes; Conformal coating, Class A Yes; Conformal coating, Class A Yes Configuration systems Yes 32 Functionality under WinCC Unified Libraries Yes Writer	 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
Compound for Printed Board Assemblies according to IPC-CC-830A Operating systems proprietary Yes configuration / header Message indicator Yes Alarm system (incl. buffer and acknowledgment) Yes Process value display (output) Yes Process value default (input) possible Yes Recipe management Yes Configuration software • WinCC Unified Comfort Engineering (TIA Portal) Yes • WinCC Unified PC Engineering (TIA Portal) Yes Languages Online languages • Number of online/runtime languages 32 Project languages • Languages a 32 Functionality under WinCC Unified Libraries Yes Applications/options • Writer Yes	 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
CC-830A Operating systems proprietary Yes configuration / header Message indicator Yes Alarm system (incl. buffer and acknowledgment) Yes Process value display (output) Yes Process value default (input) possible Yes Recipe management Yes Configuration software • WinCC Unified Comfort Engineering (TIA Portal) Yes • WinCC Unified PC Engineering (TIA Portal) Yes Languages Online languages • Number of online/runtime languages 32 Project languages • Languages per project 32 Functionality under WinCC Unified Libraries Yes Applications/options • Writer Yes		Yes; Conformal coating, Class A
proprietary Yes configuration / header Message indicator Yes Alarm system (incl. buffer and acknowledgment) Yes Process value display (output) Yes Process value default (input) possible Yes Recipe management Yes Configuration software • WinCC Unified Comfort Engineering (TIA Portal) Yes Languages Online languages • Number of online/runtime languages 32 Project languages • Languages Project 32 Functionality under WinCC Unified Libraries Yes Applications/options • Writer Yes		
proprietary Yes configuration / header Message indicator Yes Alarm system (incl. buffer and acknowledgment) Yes Process value display (output) Yes Process value default (input) possible Yes Recipe management Yes Configuration software • WinCC Unified Comfort Engineering (TIA Portal) Yes winCC Unified PC Engineering (TIA Portal) Yes Languages Online languages • Number of online/runtime languages 32 Project languages •		
Message indicator Yes Alarm system (incl. buffer and acknowledgment) Yes Process value display (output) Yes Process value default (input) possible Yes Recipe management Yes Configuration software • WinCC Unified Comfort Engineering (TIA Portal) Yes • WinCC Unified PC Engineering (TIA Portal) Yes Languages Online languages • Number of online/runtime languages 32 Project languages • Languages per project 32 Functionality under WinCC Unified Libraries Yes Applications/options • Writer Yes		Yes
Message indicator Yes Alarm system (incl. buffer and acknowledgment) Yes Process value display (output) Yes Process value default (input) possible Yes Recipe management Yes Configuration software • WinCC Unified Comfort Engineering (TIA Portal) Yes • WinCC Unified PC Engineering (TIA Portal) Yes Languages Online languages • Number of online/runtime languages 32 Project languages • Languages per project 32 Functionality under WinCC Unified Libraries Yes Applications/options • Writer Yes		165
Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Ves Configuration software • WinCC Unified Comfort Engineering (TIA Portal) • WinCC Unified PC Engineering (TIA Portal) Yes Languages Online languages • Number of online/runtime languages • Languages • Languages per project 32 Project languages • Languages per project 32 Functionality under WinCC Unified Libraries Applications/options • Writer Yes		Vac
Process value display (output) Process value default (input) possible Process value default (input) possible Recipe management Ves Configuration software • WinCC Unified Comfort Engineering (TIA Portal) • WinCC Unified PC Engineering (TIA Portal) Yes Languages Online languages • Number of online/runtime languages • Number of online/runtime languages • Languages • Languages • Languages per project 32 Functionality under WinCC Unified Libraries Applications/options • Writer Yes		
Process value default (input) possible Recipe management Configuration software • WinCC Unified Comfort Engineering (TIA Portal) • WinCC Unified PC Engineering (TIA Portal) Yes Languages Online languages • Number of online/runtime languages • WinCC Unified Libraries Yes Applications/options • Writer Yes		
Recipe management Configuration software WinCC Unified Comfort Engineering (TIA Portal) WinCC Unified PC Engineering (TIA Portal) Yes Languages Online languages Number of online/runtime languages Languages Languages Languages Languages Ves Project languages Languages per project 32 Functionality under WinCC Unified Libraries Applications/options Writer Yes		
Configuration software • WinCC Unified Comfort Engineering (TIA Portal) • WinCC Unified PC Engineering (TIA Portal) Languages Online languages • Number of online/runtime languages • Number of online/runtime languages • Languages • Languages • Languages • Languages • Languages per project 32 Functionality under WinCC Unified Libraries Applications/options • Writer Yes		
WinCC Unified Comfort Engineering (TIA Portal) WinCC Unified PC Engineering (TIA Portal) Yes Languages Online languages Number of online/runtime languages Languages Languages Languages Languages Languages Ves Functionality under WinCC Unified Libraries Applications/options Writer Yes		165
WinCC Unified PC Engineering (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages Languages per project Substitute of the post of the po		Von
Languages Online languages Number of online/runtime languages Project languages Languages per project 32 Functionality under WinCC Unified Libraries Applications/options Writer Yes		
Online languages Number of online/runtime languages Project languages Languages per project 32 Functionality under WinCC Unified Libraries Yes Applications/options Writer Yes		165
 Number of online/runtime languages Project languages Languages per project 32 Functionality under WinCC Unified Libraries Applications/options Writer Yes 		
Project languages • Languages per project 32 Functionality under WinCC Unified Libraries Yes Applications/options • Writer Yes		22
■ Languages per project 32 Functionality under WinCC Unified Libraries Yes Applications/options ■ Writer Yes		32
Functionality under WinCC Unified Libraries Yes Applications/options • Writer Yes	, ,	00
Libraries Applications/options Writer Yes Yes		32
Applications/options • Writer Yes		
• Writer Yes		Yes
• Calc		
	• Calc	Yes

a Web browser	Voo
Web browser DDE Viouer	Yes
PDF Viewer Modio Player	Yes
Media Player	Yes
SIMATIC WinCC Sm@rtServer	Yes
SIMATIC WinCC Audit	No
Unified Collaboration	Yes
Number of Visual Basic Scripts	No
JavaScript	Yes
Task planner	
• time-controlled	Yes
task-controlled	Yes
Help system	70
Number of characters per info text	70
Number of message texts per message for this call to a Missing texts per message	10
functionality under WinCC Unified / alarm system / header	00
Number of alarm classes	32
Bit messages Number of hit messages	0.000
— Number of bit messages	9 000
Analog messages	200
— Number of analog messages	300
S7 alarm number procedure System massages I IMI	Yes
System messages HMI System messages ather (SIMATIC S7, Sinumerily)	Yes
 System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.) 	Yes
Number of characters per message	512
Number of process values per message	10
Acknowledgment groups	Yes
Message indicator	No
Message buffer	Yes; Configured as alarm archive
Circulating buffer	Yes
— retentive	Yes
— maintenance-free	Yes
Parameter set management (recipes)	
 Number of parameter set types 	750
 Parameter sets per parameter set type 	2 000
Entries per parameter set	1 000
 Size of internal parameter set memory 	12 Mbyte
Parameter set memory expandable	Yes
functionality under WinCC Unified / variables / header	
 Number of variables per device 	8 000
 Number of variables per screen 	600
• Limit values	Yes
 Structures 	Yes
Arrays	Yes
functionality under WinCC Unified / screens / header	
 Number of configurable images 	1 200
Faceplate	Yes
Image objects	
 Number of objects per image 	800
Picture window	Yes
Text fields	Yes
• I/O fields	Yes
 Graphic I/O fields (graphics list) 	Yes
 Symbolic I/O fields (text list) 	Yes
 Scalable Vector Graphics (SVG) 	Yes
 Date/time fields 	Yes
Checkbox	Yes
Option button	Yes
 Switches 	Yes
Buttons	Yes
Graphic display	Yes

a lagna	Vee
• Icons	Yes
Custom web display Compatria chicate	Yes
Geometric objects functionality under WinCC Unified / complex careen chicate / board	Yes
functionality under WinCC Unified / complex screen objects / heade Number of complex objects per screen	40
Alarm view	Yes
Trend view	Yes
User view	Yes
Status/control	No
Parameter set display	Yes
HTML browser	Yes
Bar graphs	Yes
• Sliders	Yes
Pointer instruments	Yes
Analog/digital clock	Yes
functionality under WinCC Unified / lists / header	
Number of text lists per project	750
Number of entries per text list	750
Number of graphics lists per project	750
Number of entries per graphics list	750
functionality under WinCC Unified / archiving / header	
Number of archives per device	50
 Number of entries per archive 	500 000
Message archive	Yes
 Process value archive 	Yes
 type of archiving / for WinCC Unified 	
 Sequential archive 	Yes
— Short-term archive	Yes
 storage location / of archiving / for WinCC Unified 	
— Memory card	Yes
— USB memory	Yes
— Ethernet	No
0 "	
Security	F0
Number of roles	50
Number of rolesNumber of function rights	0; V16
Number of rolesNumber of function rightsNumber of users	0; V16 200
 Number of roles Number of function rights Number of users Password export/import 	0; V16 200 Yes
 Number of roles Number of function rights Number of users Password export/import Central user administration 	0; V16 200 Yes Yes; as of WinCC V17
Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he	0; V16 200 Yes Yes; as of WinCC V17 eader
 Number of roles Number of function rights Number of users Password export/import Central user administration 	0; V16 200 Yes Yes; as of WinCC V17
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB 	0; V16 200 Yes Yes; as of WinCC V17 eader No
Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet	0; V16 200 Yes Yes; as of WinCC V17 adder No Yes
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium 	0; V16 200 Yes Yes; as of WinCC V17 adder No Yes
Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling	0; V16 200 Yes Yes; as of WinCC V17 eader No Yes Yes; as of WinCC Unified V17
Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling S7-1200	0; V16 200 Yes Yes; as of WinCC V17 Pader No Yes Yes; as of WinCC Unified V17
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 	0; V16 200 Yes Yes; as of WinCC V17 rader No Yes Yes; as of WinCC Unified V17 Yes Yes
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 	0; V16 200 Yes Yes; as of WinCC V17 rader No Yes Yes; as of WinCC Unified V17 Yes Yes No
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 Number of \$7 connections LOGO! 	0; V16 200 Yes Yes; as of WinCC V17 Rader No Yes Yes; as of WinCC Unified V17 Yes Yes No Yes
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 Number of \$7 connections LOGO! \$IMOTION 	0; V16 200 Yes Yes; as of WinCC V17 Pader No Yes Yes; as of WinCC Unified V17 Yes Yes No Yes 16
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 Number of \$7 connections LOGO! SIMOTION OPC UA Client 	0; V16 200 Yes Yes; as of WinCC V17 rader No Yes Yes; as of WinCC Unified V17 Yes Yes No Yes No Yes No Yes 16 No No No Yes
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1200 \$7-200 \$7-200 \$7-300/400 Number of \$7 connections LOGO! \$IMOTION OPC UA Client OPC UA Server 	0; V16 200 Yes Yes; as of WinCC V17 eader No Yes Yes; as of WinCC Unified V17 Yes Yes No Yes 16 No No No Yes 17 No No No No Yes Yes
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 Number of \$7 connections LOGO! \$IMOTION OPC UA Client OPC UA Server \$oftware Controller/Open Controller 	0; V16 200 Yes Yes; as of WinCC V17 Pader No Yes Yes; as of WinCC Unified V17 Yes Yes No No Yes 16 No No No Yes 17 Yes Yes No No No No No Yes Yes No
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 Number of \$7 connections LOGO! SIMOTION OPC UA Client OPC UA Server Software Controller/Open Controller functionality under WinCC Unified / service tools/configuration tools 	0; V16 200 Yes Yes; as of WinCC V17 Pader No Yes Yes; as of WinCC Unified V17 Yes Yes No Yes 16 No No Yes 16 No No Yes Yes 16 No No No Yes Yes Yes Yes Yes Yes No No Yes
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 Number of \$7 connections LOGO! \$IMOTION OPC UA Client OPC UA Server \$oftware Controller/Open Controller functionality under WinCC Unified / service tools/configuration tools Backup/Restore manually 	0; V16 200 Yes Yes; as of WinCC V17 rader No Yes Yes; as of WinCC Unified V17 Yes Yes No Yes No Yes 16 No No No Yes Yes Yes No No Yes Yes Yes Yes No No Yes Yes Yes No No Yes Yes
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1200 \$7-200 \$7-300/400 Number of \$7 connections LOGO! SIMOTION OPC UA Client OPC UA Server Software Controller/Open Controller functionality under WinCC Unified / service tools/configuration tools Backup/Restore automatically Backup/Restore automatically 	0; V16 200 Yes Yes; as of WinCC V17 ader No Yes Yes; as of WinCC Unified V17 Yes Yes No Yes No Yes 16 No No No Yes
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1200 \$7-200 \$7-300/400 Number of \$7 connections LOGO! \$IMOTION OPC UA Client OPC UA Server \$oftware Controller/Open Controller functionality under WinCC Unified / service tools/configuration tools Backup/Restore manually Backup/Restore automatically Simulation 	0; V16 200 Yes Yes; as of WinCC V17 eader No Yes Yes; as of WinCC Unified V17 Yes Yes No Yes No Yes 16 No No No Yes
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1200 \$7-1500 \$7-200 \$7-300/400 Number of \$7 connections LOGO! \$IMOTION OPC UA Client OPC UA Server \$software Controller/Open Controller functionality under WinCC Unified / service tools/configuration tools Backup/Restore manually Backup/Restore automatically Simulation Device switchover 	0; V16 200 Yes Yes; as of WinCC V17 ader No Yes Yes; as of WinCC Unified V17 Yes Yes No Yes No Yes 16 No No No Yes
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1200 \$7-1500 \$7-200 \$7-300/400 Number of \$7 connections LOGO! \$IMOTION OPC UA Client OPC UA Server \$oftware Controller/Open Controller functionality under WinCC Unified / service tools/configuration tools Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options 	0; V16 200 Yes Yes; as of WinCC V17 Pader No Yes Yes; as of WinCC Unified V17 Yes Yes Yes No No Yes 16 No No No Yes
 Number of roles Number of function rights Number of users Password export/import Central user administration functionality under WinCC Unified / transfer (upload/download) / he USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 Number of \$7 connections LOGO! SIMOTION OPC UA Client OPC UA Server Software Controller/Open Controller functionality under WinCC Unified / service tools/configuration tools Backup/Restore manually Backup/Restore automatically Simulation Device switchover 	0; V16 200 Yes Yes; as of WinCC V17 eader No Yes Yes; as of WinCC Unified V17 Yes Yes No Yes No Yes 16 No No No Yes

SIMATIC HMI MM memory card: Multi Media Card	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes
SIMATIC HMI CF memory card Compact Flash Card	No
USB memory	Yes
SIMATIC IPC USB Flashdrive (USB stick)	Yes
SIMATIC HMI USB stick	Yes
Network camera	No
Mechanics/material	
Enclosure material (front)	
Aluminum	Yes
Dimensions	
Width of the housing front	214 mm
Height of housing front	158 mm
Mounting cutout, width	197 mm
Mounting cutout, height	141 mm
Overall depth	64 mm
Weights	
Weight (without packaging)	1.4 kg

last modified: 5/29/2024 **C**