## **Data sheet**



SIPLUS S7-1500 CPU 1517H-3 PN based on 6ES7517-3HP00-0AB0 with conformal coating, 0...+60 °C, central processing unit with 2 MB work memory for program and 8 MB for data, 1st interface: PROFINET IRT with 2-port switch, 2nd interface: PROFINET RT, 3rd interface: H-SYNC, SIMATIC Memory Card required

Figure similar

General information	
Product type designation	CPU 1517H-3 PN
Engineering with	
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	see entry ID: 109746275
Configuration control	
via dataset	Yes; Only distributed
Display	
Screen diagonal [cm]	6.1 cm
Control elements	
Number of keys	6
Mode selector switch	1
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Mains buffering	
Mains/voltage failure stored energy time	5 ms
Input current	
Current consumption (rated value)	1.5 A
Inrush current, max.	2.4 A; Rated value
l²t	0.02 A <sup>2</sup> ·s
Power loss	
Power loss, typ.	24 W
Memory	
Number of slots for SIMATIC memory card	1
SIMATIC memory card required	Yes
Work memory	
<ul><li>integrated (for program)</li></ul>	2 Mbyte
<ul><li>integrated (for data)</li></ul>	8 Mbyte
Load memory	
<ul> <li>Plug-in (SIMATIC Memory Card), max.</li> </ul>	32 Gbyte
Backup	
maintenance-free	Yes
CPU processing times	
for bit operations, typ.	4 ns
for word operations, typ.	6 ns
for fixed point arithmetic, typ.	6 ns

for floating point arithmetic, typ.	24 ns
CPU-blocks	
Number of elements (total)	12 000; Blocks (OB, FB, FC, DB) and UDTs
DB	, (,,,,,
Number range	Number range: 1 to 59 999
• Size, max.	8 Mbyte; For non-optimized block accesses, the max. size of the DB is 64 KB
FB	OTTO
Number range	0 65 535
• Size, max.	1 Mbyte
FC	
Number range	0 65 535
• Size, max.	1 Mbyte
OB	
• Size, max.	1 Mbyte
<ul> <li>Number of free cycle OBs</li> </ul>	100
<ul> <li>Number of time alarm OBs</li> </ul>	20
<ul> <li>Number of delay alarm OBs</li> </ul>	20
<ul> <li>Number of cyclic interrupt OBs</li> </ul>	20
<ul> <li>Number of process alarm OBs</li> </ul>	50
<ul> <li>Number of startup OBs</li> </ul>	100
<ul> <li>Number of asynchronous error OBs</li> </ul>	4
<ul> <li>Number of synchronous error OBs</li> </ul>	2
Number of diagnostic alarm OBs	1
Nesting depth	
per priority class	24
Counters, timers and their retentivity	
S7 counter	
Number	2 048
Retentivity	
— adjustable	Yes
IEC counter	
Number	Any (only limited by the main memory)
Retentivity	
— adjustable	Yes
S7 times	
Number	2 048
Retentivity	
— adjustable	Yes
IEC timer	
Number	Any (only limited by the main memory)
Retentivity	
— adjustable	Yes
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	768 kbyte
Flag	
• Size, max.	16 kbyte
Number of clock memories	8; 8 clock memory bit, grouped into one clock memory byte
Data blocks	
Retentivity adjustable	Yes
Retentivity preset	No
Local data	
per priority class, max.	64 kbyte; max. 16 KB per block
Address area	
Number of IO modules	16 384; max. number of modules / submodules
I/O address area	
• Inputs	32 kbyte
Outputs	32 kbyte
per integrated IO subsystem	
— Inputs (volume)	16 kbyte
— Outputs (volume)	16 kbyte
Subprocess images	
<ul> <li>Number of subprocess images, max.</li> </ul>	32

Hardware configuration	
Number of IO Controllers	
• integrated	1
Time of day	
Clock	
• Type	Hardware clock
Backup time	6 wk; At 40 °C ambient temperature, typically
Deviation per day, max.	10 s; Typ.: 2 s
Operating hours counter	
Number	16
Clock synchronization	
<ul><li>supported</li></ul>	Yes
<ul><li>in AS, master</li></ul>	No
• in AS, slave	No
on Ethernet via NTP	Yes
Interfaces	
Number of PROFINET interfaces	1
1. Interface	
Interface types	
• RJ 45 (Ethernet)	Yes; X1
<ul> <li>Number of ports</li> </ul>	2
integrated switch	Yes
Protocols	
IP protocol	Yes; IPv4
PROFINET IO Controller	Yes
PROFINET IO Device	No
SIMATIC communication	Yes; Only Server
Open IE communication	Yes
Web server	No
Media redundancy  PROFINITION Controlled  The second controlled controll	Yes
PROFINET IO Controller	
Services — PG/OP communication	Yes
— Isochronous mode	No
— IRT	No
— PROFlenergy	Yes
Number of connectable IO Devices, max.	256
Update time for RT	
— for send cycle of 1 ms	1 ms to 512 ms
2. Interface	
Interface types	
RJ 45 (Ethernet)	Yes; X2
Number of ports	1
integrated switch	No
Protocols	
IP protocol	Yes; IPv4
PROFINET IO Controller	No
<ul> <li>PROFINET IO Device</li> </ul>	No
<ul> <li>SIMATIC communication</li> </ul>	Yes; Only Server
Open IE communication	Yes
Web server	No
Media redundancy	No
3. Interface	
Interface type	Pluggable interface module (IF)
Plug-in interface modules	Synchronization module 6AG1960-1CB00-4AA5 or 6AG1960-1FB00-
	4AA5
4. Interface	
Interface type	Pluggable synchronization submodule (FO)
Plug-in interface modules	Synchronization module 6AG1960-1CB00-4AA5 or 6AG1960-1FB00-
lute of a control of the control of	4AA5
Interface types	
RJ 45 (Ethernet)	

• 100 Mbps	Yes
<ul> <li>Autonegotiation</li> </ul>	Yes
<ul> <li>Autocrossing</li> </ul>	Yes
Industrial Ethernet status LED	Yes
Protocols	
PROFIsafe	No
Number of connections	
<ul> <li>Number of connections, max.</li> </ul>	160
<ul> <li>Number of connections reserved for ES/HMI/web</li> </ul>	10
Redundancy mode	
Media redundancy	
— MRP	Yes; Manager Auto is permanently set in TIA. Max. 50 nodes are
Mana	possible
— MRPD	No PROFINET MPP
— Switchover time on line break, typ.	200 ms; PROFINET MRP
— Number of stations in the ring, max.	50
SIMATIC communication	Na
• S7 routing	No
S7 communication, as server     S7 communication, as alient.	Yes
S7 communication, as client  Open IS communication.	No
Open IE communication	Voc
TCP/IP      Data length may	Yes
— Data length, max.	64 kbyte Yes
<ul> <li>— several passive connections per port, supported</li> </ul>	165
• ISO-on-TCP (RFC1006)	Yes
— Data length, max.	64 kbyte
• UDP	Yes
— Data length, max.	2 kbyte; 1 472 bytes for UDP broadcast
— UDP multicast	Yes; Max. 5 multicast circuits
• DHCP	No
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Web server	
• HTTP	No
• HTTPS	No
OPC UA	
OPC UA Client	No
OPC UA Server	No
Further protocols	
MODBUS	Yes; MODBUS TCP
S7 message functions	
Program alarms	No
Test commissioning functions	
	No
Joint commission (Team Engineering) Status block	Yes; Up to 16 simultaneously
Single step	No
Status/control	
Status/control variable	Yes
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Number of variables, max.	,
— of which status variables, max.	200; per job
— of which control variables, max.	200; per job
Forcing	
Forcing, variables	Peripheral inputs/outputs
Number of variables, max.	200
Diagnostic buffer	
• present	Yes
Number of entries, max.	3 200
— of which powerfail-proof	1 000
Traces	
Number of configurable Traces	8
Memory size per trace, max.	512 kbyte

Diagnostics indication LED  RENION ED LED  RENION TOP LED  REPROR LED  Commercion display LINK TX/RX  Wes  Motion Control  Controller  PID_Compact  PID_Step  No  PID-1 enp  Counting and measuring  Significant installation, min.  PID-1 enp  Counting and measuring  Significant installation, min.  Protrollat installation, min.  Protrollation installation installation, min.  Protrollation installation installation, min.  Protrollation installation installation installation.  Protrollation installation insta	Interrupts/diagnostics/status information	
RENORT LED RENOR LED RENO		
		Yes
Motion Control Pilip Speed counter Pilip Speed counter Portical installation, min. Porticatal installation in min. Porticatal installat		
Controller  Motion Control Controller  PID_Compact  PID_Compact  PID_Compact  PID_Temp  No Controlling and measuring  High speed counter  No Ambient temperature during operation  No incirculal installation, min.  Nortical installation installa		
Motion Control  PID_Compact PI		
Motion Controller  PID_Compact		res
Controller  PID_Compact PID_Compact PID_Sistep No PID-Temp No No No PID-Temp No No No No No No PID-Temp No		
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PID_Sitep PID_Fremp Counting and measuring Pigh-speed counter Ambient conditions Ambient temperature during operation Porticial installation, min. Portical installation in		
PID-Temp Counting and measuring High-speed counter Ambient conditions Ambient temperature during operation  • horizontal installation, min. • vertical installation installation • min. • vertical installation in		
Counting and measuring		
Milding to conditions	·	No
Ambient conditions  Ambient temperature during operation  • horizontal installation, min. • horizontal installation, min. • horizontal installation, min. • vertical installation, min. • m	Counting and measuring	
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horizontal installation, min.     horizontal installation, min.     horizontal installation, min.     horizontal installation, min.     vertical installation, min.     vertical installation, min.     vertical installation, max.  A vertical installation, max.   A vertical installation, max.  A vertical installation, max.  A vertical installation, max.  A vertical installation, max.  A vertical installation, max.  A vertical installation, max.  A vertical installation, max.  A vertical installation in max.  A vertical installation in max.  A vertical installation, max.  A vertical installation, max.  A vertical installation, max.  A vertical installation in max.  A vertical installation, max.  A vertical installation, max.  A vertical installation in invitable vertical installation in service in the vertical installation in invitable vertical installation.  A vertical installation, max.  A vertical installation in invitable vertical installation, max.  A vertical installation, max.  A vertical installation in invitable vertical installation in invitable vertical installation, max.  A vertical installation, max.  A vertical installation, max.  A vertical installation in invitable vertical installation, max.  A vertical installation, max.  A vertical installation, max.  A vertical installation, max.  A vertical installation in invitable vertical installation in invitable vertical installation, max.  A vertical installation, max.  A vertical installation, max.  A vertical installation, max.  A	Ambient conditions	
• horizontal installation, max.  • vertical installation, min.  • vertical installation, min.  • vertical installation, min.  • vertical installation, max.   Ambient temperature during storage/transportation  • min.  • max.  Altitude during operation relating to sea level  • Installation attitude above sea level, max.  • Ambient air temperature-barometric pressure-attitude  • Installation attitude above sea level, max.  • Ambient air temperature-barometric pressure-attitude  • 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  — Resistance To biologically active substances according to EN 60721-3-3  — to chemically active substances according to EN 60721-3-3  — to mechanically active substances according to EN 60721-3-3  — to chemically active substances according to EN 60721-3-6  — to chemically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — to mechanically active substances according to EN 60721-3-6  — t	Ambient temperature during operation	
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e vertical installation, min.  • vertical installation, min.  • vertical installation, min.  • vertical installation, max.  Antiblent temperature during storage/transportation  • min.  • max.  Altitude during operation relating to sea level  • Installation altitude above sea level, max.  • Ambient air temperature-barometric pressure-altitude  • Installation altitude above sea level, max.  • Ambient air temperature-barometric pressure-altitude  • Installation altitude above sea level, max.  • Ambient air temperature-barometric pressure-altitude  • With condensation, tested in accordance with IEC 60068-2-38, max.  Relative humidity  • With condensation, tested in accordance with IEC 60068-2-38, max.  Resistance  Coolants and lubricants  — Resistant to commercially available coolants and lubricants  — In biologically active substances according to EN 60721-3-3  — to mechanically active substances according to EN 60721-3-3  — to chemically active substances according to EN 60721-3-3  — to mechanically 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 60721-3-7  — to mechanically active substances according to EN 60721-3-7  — to mechanically active substances according to EN 60721-3-7  — to mechanically active substances according	· · · · · · · · · · · · · · · · · · ·	60 °C: = Tmax: display: 50 °C. the display is switched off at an operating
vertical installation, min.     vertical installation, max.  Ambient temperature during storage/transportation     vmin.     nmax.  Ambient temperature during storage/transportation     vmin.     nmax.  And "C 70 "C  Natitude during operation relating to sea level  Installation altitude above sea level, max.  Ambient air temperature-barometric pressure-altitude  Vith condensation, tested in accordance with IEC 60086-2-38, max.  Resistance  Coolants and lubricants  Resistance  Coolants and lubricants  Resistance  Coolants and lubricants  New Yes; Incl. diesel and oil droplets in the air  Yes; Class 382 mold, fungus and dry rot spores (with the exception of fauna); Class 383 on request  Yes; Class 384 incl. sand, dust, *  Yes; Class 384 incl. sand, dust, *  Yes; Class 682 mold, fungula and dry rot spores (with the exception of fauna); Class 383 on request  Yes; Class 384 incl. sand, dust, *  Yes; Class 682 mold, fungula and dry rot spores (with the exception of fauna); Class 383 on request  Yes; Class 384 incl. sand, dust, *  Yes; Class 682 mold, fungula and dry rot spores (excluding fauna)  Yes; Class 683 incl. sand, dust, *		
display is switched off  * min. * max. * max.  * Altitude during operation relating to sea level  * Installation altitude above sea level, max. * Ambient air temperature-barometric pressure-altitude  * with condensation, tested in accordance with IEC 60088-2-38, max.  * Relative humidity  * With condensation, tested in accordance with IEC 60088-2-38, max.  * Resistance  * 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 chemically active substances according to EN 60721-3-3  Use on shipsiat 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	<ul> <li>vertical installation, min.</li> </ul>	0 °C; = Tmin
display is switched off  * min. * max. * max. * Ambient air temperature-barometric pressure- alittude during operation relating to sea level  * Installation altitude above sea level, max. * Ambient air temperature-barometric pressure- alittude * with condensation, tested in accordance with IEC * 60088-2-38, max.  * Relative humidity  * With condensation, tested in accordance with IEC * 60088-2-38, max.  * Resistant 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  Use on shipsiat 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 me	<ul> <li>vertical installation, max.</li> </ul>	40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the
min.     max.  Altitude during operation relating to sea level  Installation altitude above sea level, max.     Ambient air temperature-barometric pressurealtitude  With condensation, tested in accordance with IEC 60668-2-38, 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  — The 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 chemically active substances according to EN 60721-3-6 — to mechanically active substan	· 	
* max.  Altitude during operation relating to sea level  Initial state of the properature of the proper	Ambient temperature during storage/transportation	
Altitude during operation relating to sea level  Installation altitude above sea level, max.  Installation alti	• min.	-40 °C
<ul> <li>Installation altitude above sea level, max.</li> <li>↑ Ambient air temperature-barometric pressure-altitude</li> <li>(Trimax - 10 K) at 795 hPa 558 hPa (+2 000 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 658 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 64 hPa 540 hPa (+3 500 m) +5 000 m) // Tmin (Trmax - 20 K) at 64 hPa 540 hPa 540</li></ul>	• max.	70 °C
Ambient air temperature-barometric pressure- altitude  Ambient air temperature-barometric pressure- altitude  Tmin Tmax at 1 140 RPa 795 RPa (-1 000 m +2 000 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -2 0 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -20 K) at 658 RPa (+2 000 m +3 600 m) // Tmin (Tmax -20 K) at 658 RPa (+2 000 m) +3 600 m) // Tmin (Tmax -20 K) at 658 RPa (+2 000 m) +3 600 m) // Tmin (Tmax -20 K) at 658 RPa (+2 000 m) +3 600 m) // Tmin (Tmax -20 K) at 658 RPa (+2 000 m) +3 600 m) // Tmin (Tmax -20 K) at 658 RPa (+2 000 m) // Tmin (Tmax -20 K) at 658 RPa (+2 000 m) // Tmin (Tmax -20 K) at 658 RPa (+2 000 m) // Tmin (Tmax -20 K) at 658 RPa (+2 00 m) // Tmin (Tmax -20 K) at 658 RPa (+2 00 m) // Tmin (Tmax -20 K) at 658 RPa (+2 00 m) // Tmin (Tmax -20 K) at 600 m) // Tmin (Tmax -20 K) at 600 m, 100 m	Altitude during operation relating to sea level	
Relative humidity  • With condensation, tested in accordance with IEC 60088-2-38, max.  Resistance Coolants and lubricants  — Resistant to commercially available coolants and lubricants  — Resistance To biologically active substances according to EN 60721-3-3  — to chemically active substances according to EN 60721-3-3  Use on ships/at sea  — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances	<ul> <li>Installation altitude above sea level, max.</li> </ul>	5 000 m
Relative humidity  • With condensation, tested in accordance with IEC 60068-2-38, max.  Resistance Coolants and lubricants  — Resistant to commercially available coolants and lubricants Use in stationary industrial systems — 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  Use on ships/at sea — to biologically active substances according to EN 60721-3-3  Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6  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 EC-830A  configuration / header	<ul> <li>Ambient air temperature-barometric pressure-</li> </ul>	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin
Relative humidity  • With condensation, tested in accordance with IEC 60084-2-38, max.  Resistance 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 chemically active substances according to EN 60721-3-3 — to mechanically 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  Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04  Conformal coating  • Coatings for printed circuit board assemblies acc. to EN 60864-3 • 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  configuration / header	altitude	
With condensation, tested in accordance with IEC 60068-2-38, max.  Resistance Coolants and lubricants  Resistance Coolants and lubricants  Resistance Coolants and lubricants  Resistance Coolants and lubricants  Wes, Incl. diesel and oil droplets in the air  Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); Yes; Class 3S4 incl. sand, dust, Yes; Class 3S5 incl. sand, dust, 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 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		(Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Resistance 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  Use on ships/at sea  - to biologically active substances according to EN 60721-3-6  - to mechanically 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 chamically 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 chamically 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 chamically 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 biologically active substances according to EN 60721-3-6  - to biologically active substances according to EN 60721-3-6  - to biologically active substances according to EN 60721-3-6  - to biologically active substances according to EN 60721-3-6  - to biologically active substances according to EN 60721-3-6  - to biologically active substances according to EN 60721-3-6  - to biologically active substances according to EN 60721-3-6  - to bio	•	
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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 chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according	·	state), horizontal installation
- Resistant to commercially available coolants and lubricants  Use in stationary industrial systems  - to biologically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-3 - to mechanically active substances according to EN 60721-3-3 - to mechanically active substances according to EN 60721-3-3 - to biologically active substances according to EN 60721-3-3  Use on ships/at sea - to biologically active substances according to EN 60721-3-6 - to chemically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 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 60664-3 • Military testing according to Mill-1-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A  configuration / header		
Use in stationary industrial systems  — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3  — to biologically active substances according to EN 60721-3-3  Use on ships/at sea — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6  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  configuration / header		
Use in stationary industrial systems  — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to 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 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 accord		Yes; Incl. diesel and oil droplets in the air
to biologically active substances according to EN 60721-3-3 to chemically active substances according to EN 60721-3-3 to mechanically active substances according to EN 60721-3-3 to mechanically active substances according to EN 60721-3-3 to mechanically active substances according to EN 60721-3-6 to biologically active substances according to EN 60721-3-6 to chemically active substances according to EN 60721-3-6 to mechanically active substanc		
EN 60721-3-3  — to chemically active substances according to EN 60721-3-3  — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea  — 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 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 chemically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60068-2-52 (severity degree 3); *  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 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 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 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 dry rot spores (excluding fauna)  *Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)  *Yes; Clas		Voc. Class 2D2 mold fungue and dry ret aparas (with the exception of
to chemically active substances according to EN 60721-3-3 to mechanically active substances according to EN 60721-3-3  Use on ships/at sea to biologically active substances according to EN 60721-3-6 to chemically active substances according to EN 60721-3-6 to mechanically active substances according to EN 60068-2-52 (severity degree 3); * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)  * 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		
EN 60721-3-3  — to mechanically active substances according to EN 60721-3-3  Use on ships/at sea  — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6  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 60664-3 • 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  configuration / header		
Use on ships/at sea  — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6  Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04  Conformal coating  • Coatings for printed circuit board assemblies 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  configuration / header		
Use on ships/at sea  — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6  Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04  Conformal coating  • Coatings for printed circuit board assemblies 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  configuration / header	<ul> <li>to mechanically active substances according to</li> </ul>	Yes: Class 3S4 incl. sand. dust. *
- 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 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 60664-3 Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A  Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)  Yes; Class 6B3 mold, fungal and dry rot spores (excluding fauna)  Yes; Class 6B3 mold, fungal and dry rot spores (excluding fauna)  Yes; Class 6B3 mold, fungal and dry rot spores (excluding fauna)  Yes; Class 6B3 mold, fungal and dry rot spores (excluding fauna)  Yes; Class 6B3 mold, fungal and dry rot spores (excluding fauna)  Yes; Class 6B3 mold, fungal and dry rot spores (excluding fauna)  Yes; Class 6B3 mold, fungal and dry rot spores (excluding fauna)		,
EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6  Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04  Conformal coating	Use on ships/at sea	
EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6  Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04  Conformal coating	— to biologically active substances according to	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6  Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04  Conformal coating		· · · · · · · · · · · · · · · · · · ·
- to mechanically active substances according to EN 60721-3-6  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!  * 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  configuration / header		
EN 60721-3-6 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  * Yes; Conformal coating, Class A		
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!  * 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  * Yes; Conformal coating, Class A		Yes; Class 6S3 incl. sand, dust; *
— 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!  * 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 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!		
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  configuration / header  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		+T1
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  Configuration / header  Yes; Class 2 for high reliability  Yes; Type 1 protection  Yes; Discoloration of coating possible during service life  Yes; Conformal coating, Class A		
Conformal coating  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  Configuration / header  Yes; Class 2 for high reliability  Yes; Type 1 protection  Yes; Discoloration of coating possible during service life  Yes; Conformal coating, Class A		interiaces during operation!
<ul> <li>Coatings for printed circuit board assemblies acc. to EN 61086</li> <li>Protection against fouling acc. to EN 60664-3</li> <li>Military testing according to MIL-I-46058C, Amendment 7</li> <li>Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A</li> <li>Yes; Class 2 for high reliability</li> <li>Yes; Type 1 protection</li> <li>Yes; Discoloration of coating possible during service life</li> <li>Yes; Conformal coating, Class A</li> </ul>		
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  configuration / header  Yes; Type 1 protection  Yes; Discoloration of coating possible during service life  Yes; Conformal coating, Class A	9	Yes: Class 2 for high reliability
<ul> <li>Protection against fouling acc. to EN 60664-3</li> <li>Military testing according to MIL-I-46058C, Amendment 7</li> <li>Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A</li> <li>Yes; Type 1 protection</li> <li>Yes; Discoloration of coating possible during service life</li> <li>Yes; Conformal coating, Class A</li> </ul>		
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  Configuration / header  Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A  Configuration / header		Yes; Type 1 protection
Amendment 7  • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A  configuration / header		
Insulating Compound for Printed Board Assemblies according to IPC-CC-830A configuration / header		y and the second
Insulating Compound for Printed Board Assemblies according to IPC-CC-830A configuration / header	<ul> <li>Qualification and Performance of Electrical</li> </ul>	Yes; Conformal coating, Class A
configuration / header	Insulating Compound for Printed Board Assemblies	
configuration / programming / header	configuration / header	
	configuration / programming / header	

Programming language	
— LAD	Yes
— FBD	Yes
— STL	Yes
— SCL	Yes
— CFC	No
— GRAPH	No
Know-how protection	
<ul> <li>User program protection/password protection</li> </ul>	Yes
<ul> <li>Copy protection</li> </ul>	No
Block protection	Yes
Access protection	
<ul> <li>Password for display</li> </ul>	Yes
<ul> <li>Protection level: Write protection</li> </ul>	Yes
<ul> <li>Protection level: Read/write protection</li> </ul>	Yes
<ul> <li>Protection level: Complete protection</li> </ul>	Yes
Dimensions	
Width	210 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	2 119 g; Interface modules: 2x 18 g

last modified: 1/10/2023 🖸