SIEMENS

Data sheet

6AG1500-0HP00-4AB0



SIPLUS S7-1500 CPU 1517H System Bundle based on 6ES7500-0HP00-0AB0 with conformal coating, 0...+60 °C, system bundle consisting of: 2 x CPU 1517H-3 PN, 4 sync modules up to 10 m. 2 x sync cables 1 m without memory card

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General information	
Product type designation	CPU 1517H system bundle
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	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 ² ·s
Power loss	
Power loss, typ.	24 W
Memory	
Number of slots for SIMATIC memory card	1
SIMATIC memory card required	Yes
Work memory	
 integrated (for program) 	2 Mbyte
 integrated (for data) 	8 Mbyte
Load memory	
 Plug-in (SIMATIC Memory Card), max. 	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	
Number range	0 65 535
• Size, max.	1 Mbyte
FC	0
Number range	0 65 535
• Size, max. OB	1 Mbyte
• Size, max.	1 Mbyte
Number of free cycle OBs	100
Number of time alarm OBs	20
Number of delay alarm OBs	20
Number of cyclic interrupt OBs	20
Number of process alarm OBs	50
Number of startup OBs	100
 Number of asynchronous error OBs 	4
Number of synchronous error OBs	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	Vee
— 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	Ves
 Retentivity adjustable Retentivity preset	Yes 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 medules / submedules
I/O address area	16 384; max. number of modules / submodules
	32 kbyte
InputsOutputs	32 kbyte 32 kbyte
outputs per integrated IO subsystem	
— Inputs (volume)	16 kbyte
— Outputs (volume) — Outputs (volume)	16 kbyte
Subprocess images	
Number of subprocess images, max.	32

Hardware configuration	
Number of IO Controllers	4
integrated	1
Time of day	
Clock	
• Туре	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	
 supported 	Yes
 in AS, master 	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
Number of ports	2
integrated switch	2 Yes
Protocols	100
IP protocol	Yes; IPv4
PROFINET IO Controller	Yes
PROFINET IO Device	No
SIMATIC communication	
Open IE communication	Yes; Only Server Yes
Web server	No
Media redundancy	Yes
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PROFINET IO Controller Services	
— PG/OP communication	Yes
— Isochronous mode	No
— ISOCHIONOUS MODE	No
— PROFlenergy	Yes
 — From the regy — Number of connectable IO Devices, max. 	256
Update time for RT	230
— 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
PROFINET IO Device	No
SIMATIC communication	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-
	4ÅA5
4. Interface	
Interface type	Pluggable synchronization submodule (FO)
Plug-in interface modules	Synchronization module 6AG1960-1CB00-4AA5 or 6AG1960-1FB00-
-	4ÅA5
Interface types	

Autocospitation A	a 100 Mbps	Van
• AdvancesingYes• Industrial Ethemet status LEDYesProtocoisNon-Nether Status Constructions, max.• Number of connections, max.80• Number of connections, max.10• Number of connections, max.10• Number of connections, max.10• MRPDpersible- MRPDpersible- MRPDpersible- MRPDNo- MRPDNo- MRPDNo- Number of stations in the ring, max.50- Numcision, as surverYes• Strotchover time on line break, typ.200 ms, PROFINET MRP- Number of stations in the ring, max.50• Strotchover time on line break, typ.00 ms, PROFINET MRP- Number of stations in the ring, max.50• Strotchover time of stations in the ring, max.64 ktypic• Strotchover time of stations in the ring, max.64 ktypic• Strotchover time of stations in the ring.Yes• TOPIPYes• Strotchover time of stations in the ring.64 ktypic• Strotchover time of stations in the ring.64 ktypic• Strotchover time of stations in the ring.74 statistic	100 Mbps Autoregotiation	Yes
• Inclustrial Enternet status LED Yes PROFicade No Number of connections, max. 180 • Number of connections reserved for ESH-Milweb 10 PROFicade Yes Mailer of connections reserved for ESH-Milweb 10 Prescribe Yes Mailer of connections reserved for ESH-Milweb 10 Prescribe Yes Mailer of connections reserved for ESH-Milweb 10 Prescribe Yes - MRPD Yes - MRPD Yes - Strotomination 50 SIMATIC Communication in the fing. nox. 50 ST communication as a server Yes * ST communication as a server Yes * ST communication as clent No * CPIP Ves Strotomination * OPP Yes Yes * Doto Inspinot TP (RFC1000) Yes * Strotomination Yes * UPP Data length, max. 2 khyte 142 bytes for UDP broadcast * UPP Data length, max. 2 khyte 142 bytes fo	-	
Procession No PROFisate No Number of connections, max. 180 • Number of connections, meaved for ESHML/web 180 Reduradnoxy mode 180 Media redundancy 190 - MRP Yes, Manager Aulo is permanentity set in TIA. Max. 50 nodes are possible - MRPD No - Switchover time on line break, typ. 20 ms, PROFINET MRP - Number of stations in the ring, max. 50 STACOMMUNICATION, as server Yes • S7 communication, as clent No 0 S7 communication, as clent No 0 ST communication, as clent No 0 ST communication Yes - Data length, max. 64 kbyle - asverall passive connections per port, supported Yes, Yes, Smulticast circuits 0 UDP Total length, max. Yes, Yes, Smulticast circuits 0 HOP multicast Yes, Yes, Smulticast circuits 0 HOP P Yes	-	
PROFisate No Number of connections, max, 10 Number of connections, reserved for ES/HMI/web 10 Reducating model 10 Media redundation;		165
Number of connections max. 160 • Number of connections reserved for ES/HMI/web 10 Redundancy mode 10 • MRPD Yes: Manager Auto is permanently set in TIA. Max. 50 nodes are constructed on the first max. • MRPD Yes: Manager Auto is permanently set in TIA. Max. 50 nodes are constructed on the first max. • MRPD No • Structure of stations in the ring max. 50 SIMATIC communication, as elver Yes. • S7 communication Yes. • S7 communication Yes. • Deat length, max. G4 kityle • UDP Data length, max. • UDP Data length, max. • UDP Data length, max. • UDP Ves. • DCP Yes. • DCP Yes. • DCP LIA No • OPC LIA Server No		No
• Number of connections, max. 150 • Number of connections, reserved for ESHMI/web 10 Pediationsy mode 10 Media redundancy -		NO
• Number of connectors reserved for ES/HMI/web 10 Redurdancy • Kar Manager Auto is permanently set in TIA. Max. 50 nodes are possible • MRP Yes Manager Auto is permanently set in TIA. Max. 50 nodes are possible • MRPD No • Switchover time on line break, typ. 200 ms, PROPINET MRP • S7 communication, as server Yes • S7 communication, as clent No • S7 communication, as clent Yes • Data length, max. Yes • DDCP Yes • DCP Yes		160
Reduration mode Media recturdinatory MRP Yes: Manager Julio is permanently set in TIA. Max. 50 nodes are possible NRPD No Switchover time on line break, by, 200 ms; PROFINET MRP No Svitchover time on line break, by, 200 ms; PROFINET MRP So Stronting No Data length, max. 64 keyte Bata length, max. 64 keyte Data length, max. 7 kes Data length, max. 2 ktyle; 1472 bytes for UDP broadcast UDP multicast Yes Data length, max. 2 ktyle; 1472 bytes for UDP broadcast UDP multicast Yes Dota length, max. 2 ktyle; 1472 bytes for UDP broadcast Ota length, max. 2 ktyle; 1472 bytes for UDP broadcast Ota length, max. 2 ktyle; 1472 bytes for UDP broadcast Ota length, max. 2 ktyle; 1472 b		
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possible- MRPDNo- Switchover time on line break, typ.200 ms; PROFINET MRP- Switchover time on line break, typ.50SIMATIC communication50Simulation, as serverYes• S7 communication, as clientNo• S7 communication, as clientNo• Open IE communication, as clientNo• Open IE communication, as clientYes• Opal alength, max.64 kbyle- Opal alength, max.64 kbyle- Data length, max.64 kbyle• Data length, max.2 kbyle; 1472 bytes for UDP broadcast• UDPYes- Data length, max.2 kbyle; 1472 bytes for UDP broadcast• UDPYes• UDPYes• DCPYes• UDPYes• DCPYes• UDPYes• DCPYes• UDPYes• DCPYes• UDPYes• HTTPSNo• OPC UA ServerNo• OPC UA ServerNo• OPC UA ServerNo• MOBUSYes; MODBUS TCP57 message functionsYes; MoDBUS TCP58 tastistoring functionsYes; Up to 16 simutaneously NoSingle stepNo• OPC UA ServerNo• Ordinations (Team Engineering)No <td>,</td> <td>Vec: Manager Auto is permanently set in TIA Max 50 podes are</td>	,	Vec: Manager Auto is permanently set in TIA Max 50 podes are
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- Number of stations in the ring, max. 50 SIMATIC communication, as server Ves S7 communication, as server Yes TCP/IP TCP/IP Yes - Data length, max. 64 kbyte - Data length, max. 79 - Data length, max. 7	— MRPD	No
- Number of stations in the ring, max. 50 SIMATIC communication, as server Ves S7 communication, as server Yes TCP/IP TCP/IP Yes - Data length, max. 64 kbyte - Data length, max. 79 - Data length, max. 7	 Switchover time on line break, typ. 	200 ms; PROFINET MRP
SIMATIC communication No • S7 routing No • S7 communication, as server Yes • S7 communication, as client No Open Eli communication, as client No • CPAIR Yes • Data length, max. Set ktyte - several passive connections per port, supported Yes • ISO-on-TCP (RFC1006) Yes - Data length, max. Set ktyte • UDP Yes - Data length, max. Set ktyte • UDP multicast Yes, 'Max, 5 multicast circuits • DHCP Yes • DHTPS No • DHTPS No • OPC UA Server No • OPC UA Server No •		
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Open IE communication Yes • TCP/IP		No
• TCP/IP Yes - Data length, max, supported 64 kbyte - Several passive connections per port, supported Yes • 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 SIMMP Yes • DCP Yes • LDP Yes • DCP Yes • LDP Yes • DCP Yes • LLDP Yes • OPC UA Yes • OPC UA Server No • Status footk Yes; MODBUS TCP S7 message functions Yes; Up to 16 simultaneously Single step No Status footk Yes • Variables Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters • Number of variables, max. 200 • Of which status variables, max. 200 • Or which status variables, max. 200 • Or which status variables, m		
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supported • ISO-on-TCP (RFC1006) — Data length, max. • UDP — Data length, max. — UDP multicast • UDP No • SIMMP • OPC UA • OPC UA • OPC UA Client • OPC UA Server • NO • OPC UA Server • No Further protocols • SIMMP • OPC UA Server • No Further protocols • Situs Sion (Team Engineering) Situs block • Situs block • Situs block • Situs Scontrol • Situs Scontrol • Situs/control variables, max. • - of which control variables, max. • - of which status variables, max. • - of which control variables, max. • - of which control variables, max. • O Situs Situs Situs • Number of variables, max. • O Situs Situs Situs • Number of variables, max. • O Situs Situs Situs • Number of variables, max. • O Situs Situs • Number of variables, max. • O Situs Situs • Number of variables, max. • O Which powerfail-proof • Number of configurable Traces 8	-	
Data length, max.64 kbyte• UDPYes Data length, max.2 kbyte; 1 472 bytes for UDP broadcast UDP multicastYes; Max. 5 multicast circuits• DHCPNo• SINMPYes• DLCPYes• LLDPYes• LLDPYes• HTTPNo• HTTPSNo• HTTPSNo• HTTPSNo• OPC UAVes• OPC UANo• OPC UANo• OPC UA ClientNo• OPC UA ServerNo• OPC UA ServerNo• MODBUSYes; MODBUS TCPST message functionsYes; WODBUS TCPProgram alarmsNoStatus blockYes; Up to 16 simultaneouslySingle stepNoStatus/controlYes' Qoi; per job• VariablesInput/soutputs, memory bits, DBs, distributed I/Os, timers, counters• Number of variables, max.200; per job• Orighica totol variables, max.200; per job• Number of variables, max.200; per job• Number of variables, max.200• Number of vari	supported	
• UDP Yes - Data length, max. 2 kbytes 1 472 bytes for UDP broadcast - UDP multicast Yes; Max. 5 multicast circuits • DHCP No • SNMP Yes • DCP Yes • LDP Yes • UDP CIA Yes • HTTP No • HTTPS No OPC UA • • OPC UA Client No • OPC UA Server No • OPC UA Server No • MODBUS Yes; MODBUS TCP S7 message functions Yes; Up to 16 simultaneously Single step No Status/control Yes • Status/control variables, max. 200; per job • Status/control variables, max. 200; per job • Number of variables, max. 200; per job • Number of variables, max. 200 • Number of variables, max. 3200 • Number o	 ISO-on-TCP (RFC1006) 	
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UDP multicastYes; Max. 5 multicast circuits• DHCPNo• SIMMPYes• DCPYes• DCPYes• LLDPYesWebserverNo• HTTPNo• HTTPSNo• OPC UAYes• OPC UA ClientNo• OPC UA ServerNo• OPC UA ServerNo• OPC UA ServerNo• MODBUSYes; MODBUS TCPS7 message functionsYes; MODBUS TCPS1 mession ing functionsYes; Up to 16 simultaneouslySigle stepNoStatus blockYes; Up to 16 simultaneouslySingle stepNoStatus/controlYes• Number of variables, max.200; per job• of which status variables, max.200; per job• ForcingYes• Number of variables, max.200• Number of variables, max.3 200• Number of variables, max.3 200• Number of entries, max.3 200• Number of configurable Traces8	• UDP	Yes
• DHCPNo• SNMPYes• CCPYes• LLDPYes• LLDPYes• Web serverNo• HTTPSNo• HTTPSNo• OPC UA ClientNo• OPC UA ServerNo• MODBUSYes; MODBUS TCPS7 message functionsYes; MODBUS TCPS1 message functionsNoStatus blockYes; Up to 16 simultaneouslySingle stepNoStatus blockYes; Up to 16 simultaneouslySingle stepNoStatus blockYes• Number of variables, max.200; per job- of which status variables, max.200; per job- of which control variables, max.200; per job• Number of variables, max.200; per job• Number of variables, max.200- of which status variables, max.200- of which control variables, max.200- of which control variables, max.200- of which control variables, max.200- of which powerfail-proof1 joon- of which powerfail-proof1 joon<	— Data length, max.	2 kbyte; 1 472 bytes for UDP broadcast
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• LLDP Yes Web server No • HTTPS No OPC UA No • OPC UA Client No • OPC UA Server No • OPC UA Server No • OPC UA Server No • MODBUS Yes; MODBUS TCP S7 message functions Yes; MODBUS TCP Program alarms No Test commission (Team Engineering) No Status block Yes; Up to 16 simultaneously Single step No Status/control variables, max. 200; per job - of which status variables, max. 200; per job - of which control variables, max. 200; - of which control variables, max. 200 - of which status anaxies, max. 200; - of which status, max. 200; - of which status anaxies, max. 200; - of which control variables, max. 200; - of which control variables, max. 200; - of which status, max. 200; - of which control variables, max. 200; - of which control variables, max. 200; - of which status, max. 3 200 - of which spaces, max. 3 200 - of which spaces, max. 3 200		Yes
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• HTTPS No OPC UA No • OPC UA Client No • OPC UA Server No Further protocols Yes; MODBUS TCP S7 message functions Yes; MODBUS TCP S1 message functions Variables Program alarms No Test commission (Team Engineering) No Status block Yes; Up to 16 simultaneously Sigle step No Status/control Yes • Status/control variables, max. Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters • Number of variables, max. 200; per job — of which control variables, max. 200; per job Forcing Vers • Forcing, variables, max. 200 Diagnostic buffer Yes • present Yes • Number of variables, max. 3200 — of which powerfai-proof 1000 Traces 8	Web server	
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• OPC UA ClientNo• OPC UA ServerNoFurther protocols		No
• OPC UA Server No Further protocols - • MODBUS Yes; MODBUS TCP S7 message functions - Program alarms No Test commission [functions - Joint commission (Team Engineering) No Status block Yes; Up to 16 simultaneously Single step No Status/control variable Yes • Status/control variables, max. - of which status variables, max. - of which status variables, max. 200; per job Forcing - of which control variables, max. - of which status variables, max. 200; per job Forcing Versi Number of variables, max. 200; per job Forcing, variables, max. 200 Number of variables, max. 200 Number of entries, max. 3 200 - of which powerfail-proof 1 000 - of which powerfail-proof 1 000		
Further protocols • MODBUS Yes; MODBUS TCP S7 message functions No Program alarms No Test commission (Team Engineering) No Status block Yes; Up to 16 simultaneously Single step No Status/control Yes • Status/control variables Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters • Number of variables, max. 200; per job - of which status variables, max. 200; per job - of which control variables, max. 200; per job Forcing Peripheral inputs/outputs • Number of variables, max. 200 — of which control variables, max. 200 — of which status variables, max. 200; per job Forcing Peripheral inputs/outputs • Number of variables, max. 200 Diagnostic buffer Yes • present Yes • Number of entries, max. 3 200 — of which powerfail-proof 1 000 Traces 8		
• MODBUS Yes; MODBUS TCP S7 message functions No Program alarms No Test commissioning functions Joint commission (Team Engineering) Joint commission (Team Engineering) No Status block Yes; Up to 16 simultaneously Single step No Status/control Ves; Up to 16 simultaneously • Status/control No Status/control variable Yes • Status/control variables, max. Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters • Number of variables, max. 200; per job - of which status variables, max. 200; per job Forcing Variables • Number of variables, max. 200; per job • Forcing, variables, max. 200 Diagnostic buffer 200 • present Yes • Number of entries, max. 3 200 - of which powerfail-proof 1 000 Traces 8		No
S7 message functions Program alarms No Test commissioning functions Joint commission (Team Engineering) Joint commission (Team Engineering) No Status block Yes; Up to 16 simultaneously Single step No Status/control Yes; • Status/control variable Yes • Variables Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters • Variables, max. 200; per job - of which status variables, max. 200; per job - of which control variables, max. 200; per job Porcing Peripheral inputs/outputs • Forcing, variables, max. 200 Diagnostic buffer 200 • present Yes • Number of entries, max. 3 200 - of which powerfail-proof 1 000 Traces 8	•	
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Status blockYes; Up to 16 simultaneouslySingle stepNoStatus/control• Status/control variableYes• VariablesInputs/outputs, memory bits, DBs, distributed I/Os, timers, counters• Number of variables, max.200; per job- of which status variables, max.200; per job- of which control variables, max.200; per jobForcing• Forcing, variablesPeripheral inputs/outputs• Number of variables, max.200Diagnostic buffer• presentYes• Number of entries, max.3 200- of which powerfail-proof1 000Traces• Number of configurable Traces8	Test commissioning functions	
Status blockYes; Up to 16 simultaneouslySingle stepNoStatus/control• Status/control variableYes• VariablesInputs/outputs, memory bits, DBs, distributed I/Os, timers, counters• Number of variables, max.200; per job- of which status variables, max.200; per job- of which control variables, max.200; per jobForcing• Forcing, variablesPeripheral inputs/outputs• Number of variables, max.200Diagnostic buffer• presentYes• Number of entries, max.3 200- of which powerfail-proof1 000Traces• Number of configurable Traces8	Joint commission (Team Engineering)	No
Single stepNoStatus/controlYes• Status/control variablesInputs/outputs, memory bits, DBs, distributed I/Os, timers, counters• Number of variables, max.200; per job- of which status variables, max.200; per job- of which control variables, max.200; per jobForcingForcing, variables, max.• Number of variables, max.200; per jobDiagnostic buffer200• presentYes• Number of entries, max.3 200- of which powerfail-proof1 000Traces8		Yes; Up to 16 simultaneously
Status/control • Status/control variable Yes • Variables Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters • Number of variables, max. 200; per job - of which status variables, max. 200; per job - of which control variables, max. 200; per job Forcing Peripheral inputs/outputs • Number of variables, max. 200 Diagnostic buffer 200 • Number of entries, max. 3 200 - of which powerfail-proof 1 000 Traces 8	Single step	
• VariablesInputs/outputs, memory bits, DBs, distributed I/Os, timers, counters• Number of variables, max.200; per job- of which status variables, max.200; per job- of which control variables, max.200; per jobForcingPeripheral inputs/outputs• Number of variables, max.200Diagnostic buffer200- of which powerfail-proofYes- of which powerfail-proof1 000Traces8		
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of which status variables, max.200; per job of which control variables, max.200; per jobForcing• Forcing, variablesPeripheral inputs/outputs• Number of variables, max.200Diagnostic buffer200• presentYes• Number of entries, max.3 200 of which powerfail-proof1 000Traces8	Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
of which control variables, max.200; per jobForcingForcing, variablesPeripheral inputs/outputs• Forcing, variables, max.200Diagnostic buffer200• presentYes• Number of entries, max.3 200 of which powerfail-proof1 000Traces-• Number of configurable Traces8	 Number of variables, max. 	
Forcing • Forcing, variables Peripheral inputs/outputs • Number of variables, max. 200 Diagnostic buffer 200 • present Yes • Number of entries, max. 3 200 — of which powerfail-proof 1 000 Traces • Number of configurable Traces	— of which status variables, max.	200; per job
• Forcing, variablesPeripheral inputs/outputs• Number of variables, max.200Diagnostic bufferYes• presentYes• Number of entries, max.3 200 of which powerfail-proof1 000Traces• Number of configurable Traces• Number of configurable Traces8	- of which control variables, max.	200; per job
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		
Diagnostic buffer • present Yes • Number of entries, max. 3 200 - of which powerfail-proof 1 000 Traces 8	 Forcing, variables 	Peripheral inputs/outputs
	Number of variables, max.	200
Number of entries, max. 3 200 Of which powerfail-proof 1 000 Traces Number of configurable Traces 8	Diagnostic buffer	
of which powerfail-proof 1 000 Traces • Number of configurable Traces 8	• present	
Traces Number of configurable Traces 8		
Number of configurable Traces 8	— of which powerfail-proof	1 000
Memory size per trace, max. 512 kbyte		
	 Memory size per trace, max. 	512 kbyte

Interrupts/diagnostics/status information	
Diagnostics indication LED	
RUN/STOP LED	Yes
• ERROR LED	Yes
MAINT LED	Yes
 Connection display LINK TX/RX 	Yes
Supported technology objects	
Motion Control	No
Controller	
PID_Compact	No
• PID_3Step	No
• PID-Temp	No
Counting and measuring	
High-speed counter	No
Ambient conditions	
Ambient temperature during operation	
horizontal installation, min.	0 °C; = Tmin
horizontal installation, max.	60 °C; = Tmax; display: 50 °C, the display is switched off at an operating
	temperature of typically 50 °C
• vertical installation, min.	0 °C; = Tmin
• vertical installation, max.	40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the
	display is switched off
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	2 000 m
 Ambient air temperature-barometric pressure- altitude 	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)
Relative humidity	
With condensation, tested in accordance with IEC	100 %; RH incl. condensation / frost (no commissioning in bedewed
60068-2-38, max.	state), horizontal installation
Resistance	
Coolants and lubricants	
 Resistant to commercially available coolants 	Yes; Incl. diesel and oil droplets in the air
and lubricants	
Use in stationary industrial systems	
 to biologically active substances according to EN 60721 2 2 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of found); Class 3B2 an request
EN 60721-3-3	fauna); Class 3B3 on request
 — to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3): *
EN 60721-3-3	(severity degree 3); *
EN 60721-3-3 — to mechanically active substances according to	(severity degree 3); *
EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3	(severity degree 3); *
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	(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
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	(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52
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	(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
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	(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52
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	(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
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 Remark	(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; *
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	(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
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 Remark — Note regarding classification of environmental	<pre>(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * * The supplied plug covers must remain in place over the unused</pre>
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 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and	<pre>(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * * The supplied plug covers must remain in place over the unused</pre>
 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 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 	<pre>(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * * The supplied plug covers must remain in place over the unused</pre>
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 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	(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * * The supplied plug covers must remain in place over the unused interfaces during operation! Yes; Class 2 for high reliability
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 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	<pre>(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * * The supplied plug covers must remain in place over the unused interfaces during operation! Yes; Class 2 for high reliability Yes; Type 1 protection</pre>
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 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	<pre>(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * * The supplied plug covers must remain in place over the unused interfaces during operation! Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life</pre>
 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 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 	<pre>(severity degree 3); * Yes; Class 3S4 incl. sand, dust, * Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * * The supplied plug covers must remain in place over the unused interfaces during operation! Yes; Class 2 for high reliability Yes; Type 1 protection</pre>
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— LAD	Yes
— FBD	Yes
— STL	Yes
— \$12 — \$CL	Yes
- CFC	No
— GRAPH	No
Know-how protection	
 User program protection/password protection 	Yes
 Copy protection 	No
 Block protection 	Yes
Access protection	
 Password for display 	Yes
 Protection level: Write protection 	Yes
 Protection level: Read/write protection 	Yes
 Protection level: Complete protection 	Yes
Dimensions	
Width	210 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	2 119 g; Interface modules: 2x 18 g

last modified:

4/1/2022 🖸