6ES7518-4JP00-0AB0

Data sheet

SIMATIC S7-1500H, CPU 1518HF-4 PN, central processing unit with 9 MB work memory for program and 60 MB for data, 1st interface: PROFINET RT with 2-port switch, 2nd interface: PROFINET, 3rd interface: PROFINET, 4th/5th interface: H-SYNC, SIMATIC Memory Card required



General information			
Product type designation	CPU 1518HF-4PN		
HW functional status	FS04		
Firmware version	V3.1		
FW update possible	Yes		
Product function			
■ I&M data	Yes; I&M0 to I&M3		
 Isochronous mode 	No		
SysLog	Yes		
Engineering with			
 STEP 7 TIA Portal configurable/integrated from version 	V19 (FW V3.1) / V17 (FW V2.9) or higher		
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		
Repeat rate, min.	1/s		
Input current			
Current consumption (rated value)	1.55 A		
Current consumption, max.	1.95 A		
Inrush current, max.	1.95 A; Rated value		
I²t	0.4 A ² ·s		
Power			
Infeed power to the backplane bus	12 W		
Power consumption from the backplane bus (balanced)	30 W		
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)	9 Mbyte		
integrated (for data)	60 Mbyte		

Lond moment			
Load memory	22 Chuta		
Plug-in (SIMATIC Memory Card), max. Packura	32 Gbyte		
Backup	V		
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)	20 000; Blocks (OB, FB, FC, DB) and UDTs		
DB			
Number range	1 60 999; subdivided into: number range that can be used by the user: 1 59 999, and number range of DBs created via SFC 86: 60 000 60 999		
Size, max.	16 Mbyte; For DBs with absolute addressing, the max. size is 64 KB		
FB			
Number range	0 65 535		
• Size, max.	1 Mbyte		
FC			
Number range	0 65 535		
• Size, max.	1 Mbyte		
OB			
• 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; with minimum OB 3x cycle of 1 ms		
 Number of process alarm OBs 	50		
 Number of DPV1 alarm OBs 	3		
 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; Up to 8 possible for F-blocks		
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; In total; available retentive memory for bit memories, timers,		
Floa	counters, DBs, and technology data (axes): 700 KB		
Flag	4C librate		
Size, max. Number of clearly repressing.	16 kbyte		
 Number of clock memories 	8; 8 clock memory bit, grouped into one clock memory byte		
Data blocks	V		
	Yes No		

Local data			
Local data • per priority class, max.	64 kbyte; max. 16 KB per block		
Address area	ot ruyte, max. To the per block		
Number of IO modules	8 192; max. number of modules / submodules		
I/O address area	o 192, max. number of modules / submodules		
• Inputs	32 kbyte; All inputs are in the process image		
Outputs	32 kbyte; All outputs are in the process image		
per integrated IO subsystem	oz rayte, 7 iii outpute are iii tile process iiilage		
— Inputs (volume)	16 kbyte		
Outputs (volume)	16 kbyte		
Subprocess images	10 110/10		
Number of subprocess images, max.	31		
Hardware configuration			
Number of distributed IO systems	64; A distributed I/O system is characterized not only by the integration of distributed I/O via PROFINET, but also by the connection of I/O via IE/PB-Links.		
Number of IO Controllers			
• integrated	1		
Rack			
Modules per rack, max.	9; CPU + 2 PS + 6 CP		
Time of day			
Clock	Hardware shall		
Type Packup time	Hardware clock		
Backup time Deviation par day may	6 wk; At 40 °C ambient temperature, typically		
Deviation per day, max.	10 s; Typ.: 2 s		
Operating hours counter	40		
Number Clock symphysization	16		
Clock synchronization	Yes		
supportedon Ethernet via NTP	Yes		
Interfaces	Tes		
	3		
Number of PROFINET interfaces	3		
Number of PROFINET interfaces 1. Interface	3		
Number of PROFINET interfaces 1. Interface Interface types			
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet)	Yes; X1 2		
Number of PROFINET interfaces 1. Interface Interface types	Yes; X1		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports	Yes; X1 2		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols	Yes; X1 2		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch	Yes; X1 2 Yes		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • IP protocol	Yes; X1 2 Yes Yes; IPv4		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • IP protocol • PROFINET IO Controller	Yes; X1 2 Yes Yes; IPv4 Yes		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • IP protocol • PROFINET IO Controller • PROFINET IO Device	Yes; X1 2 Yes Yes; IPv4 Yes No		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • IP protocol • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • IP protocol • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server Yes; Optionally also encrypted		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • IP protocol • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server Yes; Optionally also encrypted Yes		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • IP protocol • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server Yes; Optionally also encrypted Yes		
Number of PROFINET interfaces 1. Interface Interface types RJ 45 (Ethernet) Number of ports integrated switch Protocols IP protocol PROFINET IO Controller PROFINET IO Device SIMATIC communication Open IE communication Web server Media redundancy PROFINET IO Controller	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server Yes; Optionally also encrypted Yes		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • IP protocol • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller Services — Isochronous mode — IRT	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server Yes; Optionally also encrypted Yes Yes		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • IP protocol • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller Services — Isochronous mode — IRT — PROFIenergy	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server Yes; Optionally also encrypted Yes Yes Yes		
Number of PROFINET interfaces 1. Interface Interface types RJ 45 (Ethernet) Number of ports Integrated switch Protocols IP protocol PROFINET IO Controller PROFINET IO Device SIMATIC communication Open IE communication Web server Media redundancy PROFINET IO Controller Services Isochronous mode IRT PROFIenergy Number of connectable IO Devices, max.	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server Yes; Optionally also encrypted Yes Yes Yes No No No No No Yes; per user program 256		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • IP protocol • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller Services — Isochronous mode — IRT — PROFIenergy	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server Yes; Optionally also encrypted Yes Yes Yes		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • IP protocol • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller Services — Isochronous mode — IRT — PROFINET Gennectable IO Devices, max. — Updating times — PROFINET Security Class	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server Yes; Optionally also encrypted Yes Yes Yes The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • IP protocol • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller Services — Isochronous mode — IRT — PROFIenergy — Number of connectable IO Devices, max. — Updating times — PROFINET Security Class Update time for RT	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server Yes; Optionally also encrypted Yes Yes Yes The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data 1		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • IP protocol • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller Services — Isochronous mode — IRT — PROFIenergy — Number of connectable IO Devices, max. — Updating times — PROFINET Security Class Update time for RT — for send cycle of 1 ms	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server Yes; Optionally also encrypted Yes Yes Yes The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data		
Number of PROFINET interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • IP protocol • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller Services — Isochronous mode — IRT — PROFIenergy — Number of connectable IO Devices, max. — Updating times — PROFINET Security Class Update time for RT — for send cycle of 1 ms 2. Interface	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server Yes; Optionally also encrypted Yes Yes Yes The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data 1		
Number of PROFINET interfaces 1. Interface Interface types RJ 45 (Ethernet) Number of ports Integrated switch Protocols IP protocol PROFINET IO Controller PROFINET IO Device SIMATIC communication Open IE communication Web server Media redundancy PROFINET IO Controller Services Isochronous mode IRT PROFIenergy Number of connectable IO Devices, max. Updating times PROFINET Security Class Update time for RT for send cycle of 1 ms 1. Interface Interface types	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server Yes; Optionally also encrypted Yes Yes Yes No No No No Yes; per user program 256 The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data 1 1 ms to 512 ms		
Number of PROFINET interfaces 1. Interface Interface types RJ 45 (Ethernet) Number of ports integrated switch Protocols IP protocol PROFINET IO Controller PROFINET IO Device SIMATIC communication Open IE communication Web server Media redundancy PROFINET IO Controller Services Isochronous mode IRT PROFIenergy Number of connectable IO Devices, max. Updating times PROFINET Security Class Update time for RT for send cycle of 1 ms 1. Interface Interface types RJ 45 (Ethernet)	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server Yes; Optionally also encrypted Yes Yes No No No Yes; per user program 256 The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data 1 1 ms to 512 ms Yes; X2		
Number of PROFINET interfaces 1. Interface Interface types RJ 45 (Ethernet) Number of ports Integrated switch Protocols IP protocol PROFINET IO Controller PROFINET IO Device SIMATIC communication Open IE communication Web server Media redundancy PROFINET IO Controller Services Isochronous mode IRT PROFIenergy Number of connectable IO Devices, max. Updating times PROFINET Security Class Update time for RT for send cycle of 1 ms 1. Interface Interface types	Yes; X1 2 Yes Yes; IPv4 Yes No Yes; Only Server Yes; Optionally also encrypted Yes Yes Yes No No No No Yes; per user program 256 The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data 1 1 ms to 512 ms		

Protocols	Very ID-4	
• IP protocol	Yes; IPv4	
PROFINET IO Controller	No	
PROFINET IO Device	No	
SIMATIC communication	Yes; Only Server	
Open IE communication	Yes; Optionally also encrypted	
Web server	Yes	
Media redundancy	No	
3. Interface		
Interface types		
RJ 45 (Ethernet)	Yes; X3	
Number of ports	1	
integrated switch	No	
Protocols		
IP protocol	Yes; IPv4	
SIMATIC communication	Yes; Only Server	
Open IE communication	Yes; Optionally also encrypted	
Web server		
	Yes	
4. Interface	Divergeble as representation as the state (FO)	
Interface type	Pluggable synchronization submodule (FO)	
Plug-in interface modules	Synchronization module 6ES7960-1CB00-0AA5, 6ES7960-1FB00-0AA5 or 6ES7960-1FE00-0AA5	
5. Interface		
Interface type	Pluggable synchronization submodule (FO)	
· ·	Synchronization module 6ES7960-1CB00-0AA5, 6ES7960-1FB00-0AA5 or	
Plug-in interface modules	6ES7960-1FE00-0AA5	
Interface types		
RJ 45 (Ethernet)		
• 100 Mbps	Yes	
• 1000 Mbps	Yes; Only possible at the X3 interface of the CPU 1518	
Autonegotiation	Yes	
Autoregoliation Autocrossing	Yes	
Industrial Ethernet status LED	Yes	
Protocols	100	
	Voc. V2.4 I.V2.6	
PROFIsafe	Yes; V2.4 / V2.6	
Number of connections	004 1 1 4 4 1 1 4 6 7 1 1 0 0 1 1 1 1 1 1 1 1 0 0	
Number of connections, max.	384; via integrated interfaces of the CPU and connected CPs	
Number of connections reserved for ES/HMI/web	10	
Number of connections via integrated interfaces	320	
Number of S7 routing paths	64	
Redundancy mode		
 PROFINET system redundancy (S2) 	Yes	
PROFINET system redundancy (R1)	Yes	
Media redundancy		
— Media redundancy	only via 1st interface (X1)	
— MRP	Yes; MRP Automanager according to IEC 62439-2 Edition 2.0	
 MRP interconnection, supported 	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0	
— MRPD	No	
 Switchover time on line break, typ. 	200 ms; PROFINET MRP	
 Number of stations in the ring, max. 	50	
SIMATIC communication		
PG/OP communication	Yes; encryption with TLS V1.3 pre-selected	
S7 routing	Yes	
S7 communication, as server	Yes	
S7 communication, as client	No	
Open IE communication		
• TCP/IP	Voc	
	Yes 64 khyto	
— Data length, max.	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; 128 multicast circuits (of which max. 5 via X1)		
• DHCP	No		
• DNS	Yes		
• SNMP	Yes		
• DCP	Yes		
• LLDP	Yes		
Encryption	Yes; Optional		
Web server			
• HTTP	No		
• HTTPS	Yes; only via Web API		
• web API	Yes		
Number of sessions, max.	200		
 number of simultaneous HTTP calls, max. 	4		
— HTTP request body, max.	131 072 byte		
OPC UA			
Runtime license required	Yes; "Large" license required per CPU		
OPC UA Client	No		
OPC UA Server	Yes; Data access (read, write, subscribe), method call, custom address space		
 Application authentication 	Yes		
— Security policies	available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256, Aes128Sha256RsaOaep, Aes256Sha256RsaPss		
 User authentication 	"anonymous" or by user name & password		
 — GDS support (certificate management) 	No		
— Number of sessions, max.	32		
 Number of subscriptions per session, max. 	25		
— Sampling interval, min.	25 ms		
— Publishing interval, min.	25 ms		
Number of server methods, max.	100		
 Number of inputs/outputs per server method, max. 	20		
Number of monitored items, recommended max.	12 000; for 1 s sampling interval and 1 s send interval		
Number of server interfaces, max.	10 of each "Server interfaces" / "Companion specification" type and 20 of the		
 Number of nodes for user-defined server interfaces, max. 	type "Reference namespace" 50 000		
Alarms and Conditions	No		
Further protocols			
MODBUS	Yes; MODBUS TCP		
S7 message functions	TC3, WODDGO TOI		
	CA		
Number of login stations for message functions, max.	64		
number of subscriptions, max.	750		
number of tags/attributes for subscriptions, max.	50 000		
Program alarms	Yes		
Number of configurable program messages, max.	10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH		
Number of loadable program messages in RUN, max.	10 000		
Number of simultaneously active program alarms			
Number of program alarms	4 000		
Number of alarms for system diagnostics	1 000		
Test commissioning functions			
Joint commission (Team Engineering)	No		
Status block	Yes; Up to 16 simultaneously		
Single step	No		
Number of breakpoints			
Trained of Broangemite	20; Breakpoints are only supported in RUN-Solo status		
Status/control	20; Breakpoints are only supported in RUN-Solo status		
	20; Breakpoints are only supported in RUN-Solo status Yes; without fail-safe		
Status/control			
Status/control Status/control variable	Yes; without fail-safe inputs/outputs, bit memories, DBs, peripheral I/Os (without fail-safe), times,		
Status/control Status/control variable Variables	Yes; without fail-safe inputs/outputs, bit memories, DBs, peripheral I/Os (without fail-safe), times,		

Foreign			
Forcing	Voc. without fail cafe		
• Forcing	Yes; without fail-safe		
• Forcing, variables	peripheral inputs/outputs (without fail-safe)		
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		
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	Yes; Universal PID controller with integrated optimization		
PID_Sompact PID_3Step	Yes; PID controller with integrated optimization for valves		
• PID-Temp	Yes; PID controller with integrated optimization for temperature		
	Yes		
Counting and measuring	Tes		
Standards, approvals, certificates			
Ecological footprint			
environmental product declaration	Yes		
Global warming potential			
— global warming potential, (total) [CO2 eq]	570 kg		
— global warming potential, (during production) [CO2	96.9 kg		
eq] — global warming potential, (during operation) [CO2 eq]	483 kg		
— global warming potential, (after end of life cycle) [CO2 eq]	-9.97 kg		
Highest safety class achievable in safety mode			
Performance level according to ISO 13849-1	PLe		
• SIL acc. to IEC 61508	SIL 3		
Probability of failure (for service life of 20 years and repair time			
Low demand mode: PFDavg in accordance with SIL3	< 2.00E-05		
High demand/continuous mode: PFH in accordance with SIL3	< 1.00E-09		
Ambient conditions			
Ambient temperature during operation			
horizontal installation, min.	0 °C		
horizontal installation, max.	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off		
vertical installation, min.	0 °C		
vertical installation, max.	40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the		
- Totalogi inolanguori, max.	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.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual		
configuration / header	2 222, Freetheriotics in installation distributes 2 2000 III, 300 Illandal		
configuration / programming / header			
configuration / programming / header Programming language	Vac incl feileafe		
configuration / programming / header Programming language — LAD	Yes; incl. failsafe		
configuration / programming / header Programming language	Yes; incl. failsafe Yes; incl. failsafe Yes		

- SCL Yes — CFC Yes; either CFC or failsafe functionality — GRAPH Yes Know-how protection Yes • User program protection/password protection Copy protection No Block protection Yes Access protection • protection of confidential configuration data Yes Password for display Yes • Protection level: Write protection Yes • Protection level: Read/write protection Yes • Protection level: Write protection for Failsafe Yes • Protection level: Complete protection Yes • User administration Yes programming / cycle time monitoring / header • lower limit adjustable minimum cycle time adjustable maximum cycle time • upper limit Width 210 mm Height 147 mm Depth 129 mm Weights Weight, approx. 2 116 g

	Version	Classification
eClass	14	27-24-22-07
eClass	12	27-24-22-07
eClass	9.1	27-24-22-07
eClass	9	27-24-22-07
eClass	8	27-24-22-07
eClass	7.1	27-24-22-07
eClass	6	27-24-22-07
ETIM	9	EC000236
ETIM	8	EC000236
ETIM	7	EC000236
IDEA	4	3565
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval







Miscellaneous





For use in hazardous locations

Functional Saftey

<u>FM</u>



Type Examination Certificate

Miscellaneous





Functional Saftey

Test Certificates

Marine / Shipping

Type Examination Certificate

Type Test Certificates/Test Report









Marine / Shipping other Environment

NK / Nippon Kaiji Kyokai



CCS (China Classification Society)



PROFINET



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