SIEMENS

Data sheet

6AG1315-2FJ14-2AB0



SIPLUS S7-300 CPU 315F-2PN/DP based on 6ES7315-2FJ14-0AB0 with conformal coating, -25...+60 °C, central processing unit with 512 KB work memory, 1st interface MPI/DP 12 Mbps, 2nd interface Ethernet PROFINET, with 2-port switch, Micro Memory Card required

Product type designation	CPU 315F-2 PN/DP
based on	6ES7315-2FJ14-0AB0
Product function	
Isochronous mode	Yes; Via PROFIBUS DP or PROFINET interface
Engineering with	
Programming package	STEP 7 V5.5 or higher, Distributed Safety V5.4 SP4
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	2 A min.
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
Repeat rate, min.	1 s
nput current	
Current consumption (rated value)	750 mA
Current consumption (in no-load operation), typ.	150 mA
Inrush current, typ.	4 A
l²t	1 A²·s
Power loss	
Power loss, typ.	4.65 W
l lemory	
Work memory	
integrated	512 kbyte
expandable	No
Load memory	
Plug-in (MMC)	Yes
Plug-in (MMC), max.	8 Mbyte
 Data management on MMC (after last programming), min. 	10 a
Backup	
• present	Yes; Guaranteed by MMC (maintenance-free)
without battery	Yes; Program and data
CPU processing times	
for bit operations, typ.	0.05 μs
for word operations, typ.	0.09 μs
for fixed point arithmetic, typ.	0.12 μs
for floating point arithmetic, typ.	0.45 µs
CPU-blocks	

Bs); the maximum number of loadable blocks can be C used.
e: 1 to 16000
e: 0 to 7999
e: 0 to 7999
, 86, 87 (OB83 only for PROFINET IO)
nly by RAM capacity)
ily by ItAlivi capacity)
bly by PAM canacity)
nly by RAM capacity)
)47
),

Retentivity preset	Yes
Local data	
 per priority class, max. 	32 768 byte; Max. 2048 bytes per block
Address area	
I/O address area	
• Inputs	2 048 byte
Outputs	2 048 byte
of which distributed	20.02,10
— Inputs	2 048 byte
— Outputs	2 048 byte
Process image	20.00,00
• Inputs	2 048 byte
• Outputs	2 048 byte
Inputs, adjustable	2 048 byte
Outputs, adjustable	2 048 byte
Inputs, default	128 byte
Outputs, default	128 byte
Subprocess images	120 byte
Number of subprocess images, max.	1; With PROFINET IO, the length of the user data is limited to 1600 bytes
Digital channels	., The first to, the longer of the door data is illilited to 1000 bytes
• Inputs	16 384
— of which central	1 024
Outputs	16 384
— of which central	1 024
Analog channels	1 024
• Inputs	1 024
— of which central	256
Outputs	1 024
— of which central	256
Hardware configuration	200
	3
Number of expansion units, max. Number of DP masters	3
	1
• integrated	
• via CP	4
via CP Number of operable FMs and CPs (recommended)	4
via CPNumber of operable FMs and CPs (recommended)FM	8
 via CP Number of operable FMs and CPs (recommended) FM CP, PtP 	8 8
 via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN 	8
 via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack 	8 8 10
 via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. 	8 8 10
 via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. 	8 8 10
 via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day	4 8 8 10
 via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day Clock	8 8 10 4 8
 via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day Clock Hardware clock (real-time) 	4 8 8 10 4 8
via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day Clock Hardware clock (real-time) retentive and synchronizable	4 8 8 10 4 8 Yes
via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day Clock Hardware clock (real-time) retentive and synchronizable Backup time	4 8 8 10 4 8 Yes Yes Yes 6 wk; At 40 °C ambient temperature
via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max.	8 8 10 4 8 Yes Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s
via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Modules per rack, max. Time of day Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON	4 8 8 10 4 8 Yes Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF
via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period	8 8 10 4 8 Yes Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s
via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter	8 8 10 4 8 Yes Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off
via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Itime of day Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number	8 8 10 4 8 Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off
via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number/Number range	8 8 10 4 8 Yes Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0
via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number/Number range Range of values	8 8 10 4 8 Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101)
 via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number/Number range Range of values Granularity 	8 8 10 4 8 Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101) 1 h
 via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number/Number range Range of values Granularity retentive 	8 8 10 4 8 Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101)
via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number/Number range Range of values Granularity retentive Clock synchronization	8 8 10 4 8 Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101) 1 h Yes; Must be restarted at each restart
via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number/Number range Range of values Granularity retentive Clock synchronization supported	8 8 10 4 8 Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101) 1 h Yes; Must be restarted at each restart Yes
 via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number/Number range Range of values Granularity retentive Clock synchronization supported to MPI, master 	8 8 10 4 8 Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101) 1 h Yes; Must be restarted at each restart Yes Yes
via CP Number of operable FMs and CPs (recommended) FM CP, PtP CP, LAN Rack Racks, max. Modules per rack, max. Time of day Clock Hardware clock (real-time) retentive and synchronizable Backup time Deviation per day, max. Behavior of the clock following POWER-ON Behavior of the clock following expiry of backup period Operating hours counter Number Number/Number range Range of values Granularity retentive Clock synchronization supported	8 8 10 4 8 Yes Yes 6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s Clock continues running after POWER OFF the clock continues at the time of day it had when power was switched off 1 0 0 to 2^31 hours (when using SFC 101) 1 h Yes; Must be restarted at each restart Yes

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• on DP, device	Yes	
• in AS, master	Yes	
• in AS, device	Yes	
on Ethernet via NTP Dicital inverte.	Yes; As client	
Digital inputs		
Number of digital inputs	0	
Digital outputs		
Number of digital outputs	0	
Analog inputs		
Number of analog inputs	0	
Interfaces	4	
Number of PROFINET interfaces	1	
Number of RS 485 interfaces Number of RS 422 interfaces	0	
1. Interface	0	
	Integrated RS 485 interface	
Interface type Isolated	Yes	
	res	
Interface types • RS 485	Yes	
 No 465 Output current of the interface, max. 	200 mA	
Protocols	200 1111	
• MPI	Yes	
PROFIBUS DP master	Yes	
PROFIBUS DP device	Yes	
Point-to-point connection	No	
MPI		
Transmission rate, max.	12 Mbit/s	
Services		
— PG/OP communication	Yes	
— Routing	Yes	
Global data communication	Yes	
 S7 basic communication 	Yes	
— S7 communication	Yes	
 S7 communication, as client 	No; but via CP and loadable FB	
— S7 communication, as server	Yes	
PROFIBUS DP master		
Transmission rate, max.	12 Mbit/s	
 max. number of DP devices 	124	
Services		
— PG/OP communication	Yes	
— Routing	Yes	
— Global data communication	No	
 S7 basic communication 	Yes; I blocks only	
— S7 communication	Yes	
 S7 communication, as client 	No	
 S7 communication, as server 	Yes	
— Equidistance	Yes	
— Isochronous mode	Yes; OB 61; isochronous mode can only be used alternatively on PROFIBUS DP or PROFINET IO	
— SYNC/FREEZE	Yes	
 activation/deactivation of DP devices 	Yes	
 max. number of DP devices that can be activated/deactivated at the same time 	8	
 — Direct data exchange (slave-to-slave communication) 	Yes; as subscriber	
— DPV1	Yes	
Address area		
— Inputs, max.	2 kbyte	
— Outputs, max.	2 kbyte	
User data per DP device		
— Inputs, max.	244 byte	

Transfer memory Iterated to the standard of the saver of
Transmission rate, max. automatic baud rate search Address area, max. User data per address area, max. 32 byte Services PG/OP communication Routing Global data communication S7 basic communication S7 basic communication S7 communication S7 communication S7 communication S7 communication, as client S7 communication, as server Direct data exchange (slave-to-slave communication) DPV1 No Transfer memory Inputs Q44 byte Q-utputs Q44 byte 2-utputs PROFINET Isolated automatic detection of transmission rate Autorossing Pes PRI Address at runtime, supported interface types Interface types R1 45 (Ethemet) Ne PROFINET Ocnical interface types PROFINET Ocnical interface types PRI 45 (Ethemet) Ne PROFINET Ocnical interface types PRI 45 (Ethemet) Ne PROFINET Ocnical interface types PROFINET Ocnical interface types occurrence the profice of the profixed interface types occurrence the profixed interface types
automatic baud rate search Address area, max. User data per address area, max. 32 Vest of tata per address area, max. 32 PG/OP communication
Address area, max. User data per address area, max. Services - PG/OP communication - Routing - Global data communication - S7 basic communication - S7 communication - S7 communication - S7 communication, as client - S7 communication, as server - Direct data exchange (slave-to-slave communication) - DPV1 No Transfer memory - Inputs - Outputs 244 byte 2. Interface Interface type Interface type Interface type Interface type Interface type Interface type Autocrossing Yes Autocrossing Yes PROFINET Interface type • RJ 45 (Ethernet) • Number of ports • integrated switch PROFINET IO Device • PROFINET IO Device • PROFINET IO Device Yes; Also simultaneously with IO Controller functionality Yes
User data per address area, max. Services - PG/OP communication - Routing - Global data communication - S7 basic communication - S7 communication - S7 communication, as server - Direct data exchange (slave-to-slave communication) - DPV1 No Transfer memory - Inputs - Outputs 244 byte - Outputs 244 byte 2. Interface Interface type Interface type Change of IP address at runtime, supported Interface types - RJ 45 (Ethernet) - Number of ports - Number of PROFINET IO Device - PROFINET IO Device - PROFINET IO Device - PROFINET Io Device - PROFINET Io Controller - PROFINET Io Device - PROFINET IO Controller functionality - Yes; Also simultaneously with IO Controller functionality - PROFINET CDA - PROFINET CDA - Ves; Also simultaneously with IO Controller functionality - Yes; Also simultaneously with IO Controller functionality - PROFINET CDA - Ves; Also simultaneously with IO Controller functionality - PROFINET CDA - Ves; Also simultaneously with IO Controller functionality - PROFINET CDA - Ves; Also simultaneously with IO Controller functionality - PROFINET CDA - Ves; Also simultaneously with IO Controller functionality - PROFINET CDA - Ves; Also simultaneously with IO Controller functionality - PROFINET CDA - Ves; Also simultaneously with IO Controller functionality - PROFINET CDA - Ves; Also simultaneously with IO Controller functionality - PROFINET CDA - Ves PROF
Services - PG/OP communication
- PG/OP communication - Routing - Routing - Routing - Global data communication - S7 basic communication - S7 communication - S7 communication - S7 communication - S7 communication, as client - S7 communication, as server - Direct data exchange (slave-to-slave communication) - DPV1 - Direct data exchange (slave-to-slave communication) - DPV1 - No Transfer memory - Inputs - Outputs -
- Routing Yes; Only with active interface - Global data communication - S7 basic communication - S7 communication - S7 communication, as client - S7 communication, as client - S7 communication, as server - Direct data exchange (slave-to-slave communication) - DPV1 No Transfer memory - Inputs
- Global data communication - S7 basic communication - S7 communication - S7 communication - S7 communication, as client - S7 communication, as server - Direct data exchange (slave-to-slave communication) - DPV1 - DPV1 - No Transfer memory - Inputs - Outputs - Outputs - Outputs - PROFINET Solated - Autocrossing - Autocrossing - R J 45 (Ethernet) - Number of ports - Integrated switch - PROFINET Ocntroller - Number of portice - PROFINET Ocntroller - PROFINET Ocntroller Yes; Also simultaneously with IO-Device functionality - PROFINET Io Controller functionality - PROFINET Io Controller functionality - PROFINET IO Device - PROFINET CBA - Ves (Also simultaneously with IO-Device functionality - Yes; Also simultaneously with IO-Device functionality - PROFINET IO Device - PROFINET IO Device - PROFINET CBA - Ves (Also simultaneously with IO-Device functionality - Yes; Also simultaneously with IO-Device functionality - Yes; Also simultaneously with IO-Device functionality - Yes; Also simultaneously with IO-Device functionality - PROFINET CBA - Ves (Also simultaneously with IO-Device functionality - Yes; Also simultaneously with IO-Device functionality - PROFINET CBA - S7 communication - Yes - S7 communication - Yes - S7 communication - Yes - Connection configured on one side only - Yes - Connection configured on one side only - Yes - Connection configured on one side only - Yes - Connection configured on one side only - Yes - Connection configured - Yes - Connection configured on one side only - Yes - Connection configured - Yes - Conn
- S7 basic communication Yes - S7 communication Yes - S7 communication, as client No - S7 communication, as server Yes; Connection configured on one side only - Direct data exchange (slave-to-slave communication) - DPV1 No Transfer memory - Inputs 244 byte - Outputs 244 byte - Outputs 244 byte 2. Interface Interface type PROFINET Isolated Yes automatic detection of transmission rate Yes; 10/100 Mbit/s Autoreosing Yes Change of IP address at runtime, supported Yes Interface types • RJ 45 (Ethernet) Yes • Number of ports 2 • integrated switch Yes PROFINET IO Controller Yes; Also simultaneously with IO-Device functionality • PROFINET IO Device Yes; Also simultaneously with IO Controller functionality • PROFINET IO Device Yes; Also simultaneously with IO Controller functionality • PROFINET IO Device Yes; Also simultaneously with IO Controller functionality • PROFINET IO Device Yes; Also simultaneously with IO Controller functionality • PROFINET IO Device Yes; Also simultaneously with IO Controller functionality • PROFINET CBA
- S7 communication, as client - S7 communication, as server - S7 communication, as server - S7 communication, as server - Direct data exchange (slave-to-slave communication) - DPV1 - No Transfer memory - Inputs - Outputs - Outputs 244 byte - Outputs 244 byte 2. Interface Interface type PROFINET Isolated Yes automatic detection of transmission rate Yes; 10/100 Mbit/s Autoregotiation Yes Autorossing Change of IP address at runtime, supported Interface types R J 45 (Ethernet) Number of ports Ves Integrated switch Yes Protocols PROFINET IO Controller PROFINET IO Controller (Yes; Also simultaneously with IO-Device functionality PROFINET IO Device Yes; Also simultaneously with IO Controller functionality Yes; Also simultaneously with IO Controller functionality PROFINET CBA
- S7 communication, as client - S7 communication, as server - Direct data exchange (slave-to-slave communication) - DPV1 No Transfer memory - Inputs - Outputs 244 byte 2. Interface Interface type Isolated Autonegotiation Autocrossing Yes Change of IP address at runtime, supported PROFINET Selections Interface types - RJ 45 (Ethernet) - Interface types - RJ 45 (Ethernet) - Interface types - PROFINET - Ves - Number of ports - Interface types - PROFINET - Ves - Number of ports - Interface types - RJ 45 (Ethernet) - No - PROFINET IO Controller - PROFINET IO Controller - PROFINET IO Device - PROFINET IO Device - PROFINET IO Device - PROFINET CBA Yes - Connection configured on one side only - Yes - Connection configured on one side only - Yes - Ves - No - Ves - No - Ves - V
- S7 communication, as server - Direct data exchange (slave-to-slave communication) - DPV1 No Transfer memory - Inputs - Outputs 244 byte - Outputs 244 byte 2. Interface Interface type Isolated automatic detection of transmission rate Autoregotiation Autoregotiation Yes Change of IP address at runtime, supported Interface types • RJ 45 (Ethernet) • Number of ports • Interface type PROFINET Protocols • MPI • PROFINET IO Controller • PROFINET IO Device • PROFINET CBA
— Direct data exchange (slave-to-slave communication) — DPV1 No Transfer memory — Inputs — Outputs 244 byte 2. Interface Interface type Output Interface type Interface type Interface type Interface type Interface types Interface t
communication) — DPV1 Transfer memory — Inputs — Outputs 244 byte — Outputs 214 byte 214 byte 214 byte 214 byte 215 colored 216 colored 227 colored 228 colored 239 colored 249 byte 240 colored 241 byte 242 byte 243 colored 244 byte 244 byte 244 byte 250 colored 260 colored 270 colored 280 colored 380 c
- DPV1 Transfer memory - Inputs - Outputs 244 byte 2 Unterface Interface type Interface types Interface
Transfer memory - Inputs - Outputs 244 byte 2 therface Interface type Interface type Isolated automatic detection of transmission rate Autonegotiation Yes Autocrossing Yes Change of IP address at runtime, supported Interface types • RJ 45 (Ethernet) • Number of ports • Number of ports • Integrated switch Protocols • MPI • PROFINET IO Controller • PROFINET IO Device • PROFINET OBA Yes 244 byte 254 byte PROFINET No 0
- Inputs - Outputs 244 byte 2. Interface Interface type Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Yes Change of IP address at runtime, supported Interface types RJ 45 (Ethernet) Number of ports Number of ports integrated switch Protocols MPI PROFINET IO Controller PROFINET IO Device PROFINET CBA Yes 244 byte
- Outputs 2. Interface Interface type Interface type Isolated Automatic detection of transmission rate Autorossing Autocrossing Yes Change of IP address at runtime, supported Interface types • RJ 45 (Ethernet) • Number of ports • Integrated switch Protocols • MPI • PROFINET IO Controller • PROFINET IO Device • PROFINET CBA PROFINET Wes PROFINET CBA PROFIN
Interface type Interface type Isolated Isolated Interface type Isolated Interface type Isolated Interface type Isolated Interface types Interf
Interface type Isolated Yes automatic detection of transmission rate Yes; 10/100 Mbit/s Autonegotiation Yes Autocrossing Yes Change of IP address at runtime, supported Yes Interface types RJ 45 (Ethernet) Number of ports Integrated switch Yes Protocols MPI PROFINET IO Controller Yes; Also simultaneously with IO-Device functionality PROFINET IO Device Yes; Also simultaneously with IO Controller functionality PROFINET CBA
Isolated automatic detection of transmission rate Yes; 10/100 Mbit/s Autonegotiation Yes Autocrossing Yes Change of IP address at runtime, supported Interface types • RJ 45 (Ethernet) • Number of ports • Integrated switch Protocols • MPI • PROFINET IO Controller • PROFINET IO Device • PROFINET CBA Yes Yes Yes Nol Yes; Also simultaneously with IO Controller functionality Yes; Also simultaneously with IO Controller functionality Yes Yes
automatic detection of transmission rate Autonegotiation Yes Autocrossing Change of IP address at runtime, supported Interface types RJ 45 (Ethernet) Number of ports integrated switch Protocols MPI PROFINET IO Controller PROFINET IO Device PROFINET CBA Yes Yes Yes Yes Yes Yes Yes Ye
Autocrossing Yes Change of IP address at runtime, supported Yes Interface types RJ 45 (Ethernet) Number of ports Integrated switch Yes Protocols MPI PROFINET IO Controller PROFINET IO Device PROFINET CBA Yes Yes Yes Yes Yes Yes Yes Ye
Autocrossing Change of IP address at runtime, supported Yes Interface types RJ 45 (Ethernet) Number of ports integrated switch Yes Protocols MPI PROFINET IO Controller PROFINET IO Device PROFINET CBA Yes Yes Yes Yes Yes Yes Yes Ye
Change of IP address at runtime, supported Interface types RJ 45 (Ethernet) Number of ports Integrated switch Yes integrated switch Yes Protocols MPI PROFINET IO Controller PROFINET IO Device PROFINET OBA Yes Yes Yes Yes Yes Yes Yes Ye
Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • MPI • PROFINET IO Controller • PROFINET IO Device • PROFINET CBA Yes Yes No Yes; Also simultaneously with IO-Device functionality Yes; Also simultaneously with IO Controller functionality
 RJ 45 (Ethernet) Number of ports integrated switch Yes Protocols MPI PROFINET IO Controller PROFINET IO Device PROFINET IO Device Yes; Also simultaneously with IO-Device functionality PROFINET CBA Yes Yes
 Number of ports integrated switch Yes Protocols MPI PROFINET IO Controller PROFINET IO Device PROFINET IO Device Yes; Also simultaneously with IO-Device functionality PROFINET CBA Yes
 integrated switch Protocols MPI PROFINET IO Controller PROFINET IO Device PROFINET IO Device PROFINET CBA Yes Yes Also simultaneously with IO Controller functionality Yes
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 PROFINET IO Controller PROFINET IO Device PROFINET CBA Yes; Also simultaneously with IO Controller functionality Yes
 PROFINET IO Device PROFINET CBA Yes; Also simultaneously with IO Controller functionality Yes
PROFINET CBA Yes
PROFIBUS DP master No
PROFIBUS DP device No
Open IE communication Yes; Via TCP/IP, ISO on TCP, and UDP
Web server Yes; only read function
Media redundancy Yes
PROFINET IO Controller
• Transmission rate, max. 100 Mbit/s
Services
— PG/OP communication Yes
— Routing Yes
— S7 communication Yes; With loadable FBs, max. configurable connections: 14, max. number instances: 32
— Isochronous mode Yes; OB 61; isochronous mode can only be used alternatively on PROFIE DP or PROFINET IO
— IRT Yes
— Shared device Yes
— Prioritized startup Yes
Number of IO devices with prioritized startup, max.32
— Number of connectable IO Devices, max.
— Of which IO devices with IRT, max.
— of which in line, max.
— Number of IO Devices with IRT and the option "high 128
flexibility"
flexibility"

Activation/deactivation of IO Devices	Yes
 Number of IO Devices that can be simultaneously activated/deactivated, max. 	8
 — IO Devices changing during operation (partner ports), supported 	Yes
 Number of IO Devices per tool, max. 	8
 Device replacement without swap medium 	Yes
— Send cycles	$250~\mu s, 500~\mu s, 1~ms; 2~ms, 4~ms$ (not in the case of IRT with "high flexibility" option)
— Updating time	250 µs to 512 ms (depending on the operating mode, see Manual "S7-300 CPU 31xC and CPU 31x, technical Data" for more details)
Address area	
— Inputs, max.	2 kbyte
— Outputs, max.	2 kbyte
 User data consistency, max. 	1 024 byte
PROFINET IO Device	
Services	
— PG/OP communication	Yes
— Routing	Yes
— S7 communication	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32
— Isochronous mode	No
— IRT	Yes
— PROFlenergy	Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-
	Device
— Shared device	Yes
Number of IO Controllers with shared device, max.	2
Transfer memory	
— Inputs, max.	1 440 byte; Per IO Controller with shared device
— Outputs, max.	1 440 byte; Per IO Controller with shared device
Submodules	
— Number, max.	64
 User data per submodule, max. 	1 024 byte
PROFINET CBA	
 acyclic transmission 	Yes
cyclic transmission	Yes
Open IE communication	
 Number of connections, max. 	8
Local port numbers used at the system end	0, 20, 21, 25, 80, 102, 135, 161, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535
 Keep-alive function, supported 	Yes
Protocols	
PROFIsafe	Yes
Redundancy mode	
Media redundancy	
•	200 ms; PROFINET MRP
Media redundancy	200 ms; PROFINET MRP 50
Media redundancy — Switchover time on line break, typ.	
Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max.	50
Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication • TCP/IP	Yes; via integrated PROFINET interface and loadable FBs
Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication • TCP/IP — Number of connections, max.	Yes; via integrated PROFINET interface and loadable FBs
Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication • TCP/IP — Number of connections, max. — Data length for connection type 01H, max.	Yes; via integrated PROFINET interface and loadable FBs 8 1 460 byte
Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication • TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max.	Yes; via integrated PROFINET interface and loadable FBs 1 460 byte 32 768 byte
Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication • TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max. — several passive connections per port, supported	Yes; via integrated PROFINET interface and loadable FBs 1 460 byte 32 768 byte Yes
Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication • TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max. — several passive connections per port, supported • ISO-on-TCP (RFC1006)	Yes; via integrated PROFINET interface and loadable FBs 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs
Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication • TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max. — several passive connections per port, supported • ISO-on-TCP (RFC1006) — Number of connections, max.	Yes; via integrated PROFINET interface and loadable FBs 8 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8
Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication • TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max. — several passive connections per port, supported • ISO-on-TCP (RFC1006) — Number of connections, max. — Data length, max.	Yes; via integrated PROFINET interface and loadable FBs 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte
Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication • TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max. — several passive connections per port, supported • ISO-on-TCP (RFC1006) — Number of connections, max. — Data length, max. • UDP	Yes; via integrated PROFINET interface and loadable FBs 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte Yes; via integrated PROFINET interface and loadable FBs
Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication • TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max. — several passive connections per port, supported • ISO-on-TCP (RFC1006) — Number of connections, max. — Data length, max. • UDP — Number of connections, max.	Yes; via integrated PROFINET interface and loadable FBs 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte Yes; via integrated PROFINET interface and loadable FBs
Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication • TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max. — several passive connections per port, supported • ISO-on-TCP (RFC1006) — Number of connections, max. — Data length, max. • UDP — Number of connections, max. — Data length, max.	Yes; via integrated PROFINET interface and loadable FBs 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte Yes; via integrated PROFINET interface and loadable FBs
Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication • TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max. — several passive connections per port, supported • ISO-on-TCP (RFC1006) — Number of connections, max. — Data length, max. • UDP — Number of connections, max. — Data length, max. Web server	Yes; via integrated PROFINET interface and loadable FBs 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte Yes; via integrated PROFINET interface and loadable FBs 8 1 472 byte
Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication • TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max. — several passive connections per port, supported • ISO-on-TCP (RFC1006) — Number of connections, max. — Data length, max. • UDP — Number of connections, max. — Data length, max. Web server • supported	Yes; via integrated PROFINET interface and loadable FBs 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte Yes; via integrated PROFINET interface and loadable FBs 8 1 472 byte Yes; only read function
Media redundancy — Switchover time on line break, typ. — Number of stations in the ring, max. Open IE communication • TCP/IP — Number of connections, max. — Data length for connection type 01H, max. — Data length for connection type 11H, max. — several passive connections per port, supported • ISO-on-TCP (RFC1006) — Number of connections, max. — Data length, max. • UDP — Number of connections, max. — Data length, max. Web server	Yes; via integrated PROFINET interface and loadable FBs 1 460 byte 32 768 byte Yes Yes; via integrated PROFINET interface and loadable FBs 8 32 768 byte Yes; via integrated PROFINET interface and loadable FBs 8 1 472 byte

communication functions / header	
PG/OP communication	Yes
Data record routing	Yes
Global data communication	
• supported	Yes
Number of GD loops, max.	8
Number of GD packets, max.	8
Number of GD packets, max. Number of GD packets, transmitter, max.	8
Number of GD packets, receiver, max.	8
Size of GD packets, max.	22 byte
Size of GD packets, max. Size of GD packet (of which consistent), max.	22 byte
S7 basic communication	22 byte
supported	Yes
	76 byte
User data per job, max. User data per job (of which consistent) max.	· ·
User data per job (of which consistent), max.	76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)
S7 communication	
• supported	Yes
• as server	Yes
• as client	Yes; via integrated PROFINET interface and loadable FB or via CP and
	loadable FB
User data per job, max.	See online help of STEP 7 (shared parameters of the SFBs/FBs and of the
•	SFCs/FCs of S7 Communication)
S5 compatible communication	V
• supported	Yes; via CP and loadable FC
communication functions / PROFINET CBA (with set target commu	
 Setpoint for the CPU communication load 	50 %
 Number of remote interconnection partners 	32
 number of master/device functions 	30
 total of all master/device connections 	1 000
 data length of all incoming master/device connections, max. 	4 000 byte
data length of all outgoing master/device connections, max.	4 000 byte
Number of device-internal and PROFIBUS interconnections	500
 Data length of device-internal und PROFIBUS interconnections, max. 	4 000 byte
Data length per connection, max.	1 400 byte
performance data / PROFINET CBA / remote interconnection	/ with acyclic transfer / header
— Sampling interval, min.	500 ms
Number of incoming interconnections	100
Number of outgoing interconnections	100
Data length of all incoming interconnections, max.	2 000 byte
Data length of all outgoing interconnections, max.	2 000 byte
Data length per connection, max.	1 400 byte
performance data / PROFINET CBA / remote interconnection	·
Transmission frequency: Transmission interval, min.	10 ms
Number of incoming interconnections	200
Number of outgoing interconnections	200
Data length of all incoming interconnections, max.	2 000 byte
Data length of all outgoing interconnections, max.	2 000 byte
Data length per connection, max.	450 byte
performance data / PROFINET CBA / HMI variables via PROF	·
Number of stations that can log on for HMI variables (PN OPC/iMap)	3; 2x PN OPC/1x iMap
— HMI variable updating	500 ms
Number of HMI variables	200
— Data length of all HMI variables, max.	2 000 byte
performance data / PROFINET CBA / PROFIBUS proxy function	·
— supported	Yes
Number of linked PROFIBUS devices	16
Data length per connection, max.	240 byte; Slave-dependent
↓ 1 / '	

Number of connections	
• overall	16
usable for PG communication	15
reserved for PG communication	1
— adjustable for PG communication, min.	1
adjustable for PG communication, max.	15
usable for OP communication	15
reserved for OP communication	1
adjustable for OP communication, min.	1
adjustable for OP communication, max.	15
usable for S7 basic communication	14
reserved for S7 basic communication	0
adjustable for S7 basic communication, min.	0
adjustable for S7 basic communication, max.	14
usable for S7 communication	14
reserved for S7 communication	0
adjustable for S7 communication, min.	0
adjustable for S7 communication, min. adjustable for S7 communication, max.	14
 total number of instances, max. 	32
total number of instances, max.usable for routing	X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max.
• usable for fouring	14; X2 as PROFINET: 24 max.
S7 message functions	
Number of login stations for message functions, max.	16; Depending on the configured connections for PG/OP and S7 basic communication
Draces diagnostic massages	
Process diagnostic messages	Yes
simultaneously active Alarm_S blocks, max. Test commissioning functions	300
Status block	Yes; Up to 2 simultaneously
Single step	Yes
Number of breakpoints	4
Status/control	7
Status/control variable	Yes
Variables	Inputs, outputs, memory bits, DB, times, counters
Number of variables, max.	30
of which status variables, max.	30
of which status variables, max.	14
Forcing	17
• Forcing	Yes
• Forcing, variables	Inputs, outputs
Number of variables, max.	
• Number of variables, max.	
	10
Diagnostic buffer	
Diagnostic buffer • present	Yes
Diagnostic buffer ● present • Number of entries, max.	Yes 500
Diagnostic buffer ● present ● Number of entries, max. — adjustable	Yes 500 No
Diagnostic buffer ● present ● Number of entries, max. — adjustable — of which powerfail-proof	Yes 500 No 100
Diagnostic buffer present Number of entries, max. adjustable of which powerfail-proof Number of entries readable in RUN, max.	Yes 500 No 100 499
Diagnostic buffer ● present ● Number of entries, max. — adjustable — of which powerfail-proof ● Number of entries readable in RUN, max. — adjustable	Yes 500 No 100 499 Yes
Diagnostic buffer ● present ● Number of entries, max. — adjustable — of which powerfail-proof ● Number of entries readable in RUN, max. — adjustable — preset	Yes 500 No 100 499
Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset Service data	Yes 500 No 100 499 Yes 10
Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset Service data • can be read out	Yes 500 No 100 499 Yes
Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset Service data • can be read out Standards, approvals, certificates	Yes 500 No 100 499 Yes 10
Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset Service data • can be read out Standards, approvals, certificates CE mark	Yes 500 No 100 499 Yes 10 Yes
Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset Service data • can be read out Standards, approvals, certificates CE mark UL approval	Yes 500 No 100 499 Yes 10 Yes Yes Yes; File E239877
Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset Service data • can be read out Standards, approvals, certificates CE mark UL approval RCM (formerly C-TICK)	Yes 500 No 100 499 Yes 10 Yes Yes Yes Yes; File E239877 Yes
Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset Service data • can be read out Standards, approvals, certificates CE mark UL approval RCM (formerly C-TICK) KC approval	Yes 500 No 100 499 Yes 10 Yes Yes Yes Yes; File E239877 Yes Yes
Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset Service data • can be read out Standards, approvals, certificates CE mark UL approval RCM (formerly C-TICK) KC approval EAC (formerly Gost-R)	Yes 500 No 100 499 Yes 10 Yes Yes Yes Yes; File E239877 Yes
Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset Service data • can be read out Standards, approvals, certificates CE mark UL approval RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) Use in hazardous areas	Yes 500 No 100 499 Yes 10 Yes Yes Yes Yes Yes Yes Yes Ye
Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset Service data • can be read out Standards, approvals, certificates CE mark UL approval RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) Use in hazardous areas • ATEX	Yes 500 No 100 499 Yes 10 Yes Yes Yes Yes; File E239877 Yes Yes
Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset Service data • can be read out Standards, approvals, certificates CE mark UL approval RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) Use in hazardous areas	Yes 500 No 100 499 Yes 10 Yes Yes Yes Yes Yes Yes Yes Ye

Ambient temperature during operation			
• min.	-25 °C; = Tmin		
• max.	60 °C; = Tmax		
Ambient temperature during storage/transportation	00 O, - Illiax		
• min.	-40 °C		
• max.	70 °C		
Altitude during operation relating to sea level	10.0		
Installation altitude above sea level, max.	2 000 m		
Ambient air temperature-barometric pressure-altitude	2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)		
Relative humidity	1111111 1111ax at 1 140 111 a 193 111 a (-1 000 111 12 000 111)		
With condensation, tested in accordance with IEC 60068-	100 %; RH incl. condensation/frost (no commissioning under condensation		
2-38, max.	conditions)		
Resistance			
Use in stationary industrial systems			
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of 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); *		
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *		
Use on ships/at sea			
 to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request		
 to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *		
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *		
Usage in industrial process technology			
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)		
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)		
Remark			
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!		
configuration / header			
Configuration software			
• STEP 7	Yes; V5.5 or higher		
configuration / programming / header	•		
Command set	see instruction list		
Nesting levels	8		
System functions (SFC)	see instruction list		
System function blocks (SFB)	see instruction list		
Programming language			
— LAD	Yes		
— FBD	Yes		
— STL	Yes		
— SCL	Yes		
— CFC	Yes		
— GRAPH	Yes		
— GRAPH — HiGraph®			
— HiGraph®	Yes		
— HiGraph® Know-how protection	Yes		
— HiGraph® Know-how protection ● User program protection/password protection	Yes		
HiGraph® Know-how protection • User program protection/password protection • Block encryption	Yes		
— HiGraph® Know-how protection • User program protection/password protection • Block encryption Dimensions	Yes Yes Yes; With S7 block Privacy		
— HiGraph® Know-how protection • User program protection/password protection • Block encryption Dimensions Width	Yes Yes Yes; With S7 block Privacy 40 mm		
— HiGraph® Know-how protection • User program protection/password protection • Block encryption Dimensions Width Height	Yes Yes Yes; With S7 block Privacy 40 mm 125 mm		
— HiGraph® Know-how protection • User program protection/password protection • Block encryption Dimensions Width Height Depth	Yes Yes Yes; With S7 block Privacy 40 mm		
— HiGraph® Know-how protection • User program protection/password protection • Block encryption Dimensions Width Height Depth Weights	Yes Yes Yes; With S7 block Privacy 40 mm 125 mm 130 mm		
— HiGraph® Know-how protection • User program protection/password protection • Block encryption Dimensions Width Height Depth Weights Weight, approx.	Yes Yes Yes; With S7 block Privacy 40 mm 125 mm		
— HiGraph® Know-how protection • User program protection/password protection • Block encryption Dimensions Width Height Depth Weights	Yes Yes Yes; With S7 block Privacy 40 mm 125 mm 130 mm		

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



Manufacturer Declaration







EMV

For use in hazardous locations

Functional Saftey

<u>KC</u>







CCC-Ex



Test Certificates



last modified:

12/8/2024

