## **SIEMENS**

## **Data sheet**

## 6ES7315-6FF04-0AB0



SIMATIC S7-300, CPU 315F-2DP Fail-safe module with MPI Integr. power supply 24 V DC, Work memory 384 KB, 40 mm width, 2nd interface DP master/slave Micro Memory Card required

Figure similar

General information	
HW functional status	01
Firmware version	V3.3
Product function	
<ul> <li>Isochronous mode</li> </ul>	Yes
Engineering with	
Programming package	STEP 7 V5.5 + SP1 or higher or STEP 7 V5.2 + SP1 or higher with HSP 218 + Distributed Safety
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	2 A min.
Mains buffering	
<ul> <li>Mains/voltage failure stored energy time</li> </ul>	5 ms
<ul> <li>Repeat rate, min.</li> </ul>	1 s
Input current	
Current consumption (rated value)	850 mA
Current consumption (in no-load operation), typ.	150 mA
Inrush current, typ.	3.5 A
l²t	1 A <sup>2</sup> ·s
Power loss	
Power loss, typ.	4.5 W
Memory	
Work memory	
• integrated	384 kbyte
expandable	No
Load memory	
<ul><li>Plug-in (MMC)</li></ul>	Yes
<ul><li>Plug-in (MMC), max.</li></ul>	8 Mbyte
<ul> <li>Data management on MMC (after last programming), min.</li> </ul>	10 y
Backup	
<ul><li>present</li></ul>	Yes; Guaranteed by MMC (maintenance-free)
<ul><li>without battery</li></ul>	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	
Number of blocks (total)	1 024; (DBs, FCs, FBs); the maximum number of loadable blocks can be reduced by the MMC used.
DB	
<ul><li>Number, max.</li></ul>	1 024; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
Number, max.	1 024; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	
<ul><li>Number, max.</li></ul>	1 024; Number range: 0 to 7999
Size, max.	64 kbyte
OB	
<ul><li>Number, max.</li></ul>	see instruction list
• Size, max.	64 kbyte
Number of free cycle OBs	1; OB 1
<ul> <li>Number of time alarm OBs</li> </ul>	1; OB 10
<ul> <li>Number of delay alarm OBs</li> </ul>	2; OB 20, 21
<ul> <li>Number of cyclic interrupt OBs</li> </ul>	4; OB 32, 33, 34, 35
<ul> <li>Number of process alarm OBs</li> </ul>	1; OB 40
<ul> <li>Number of DPV1 alarm OBs</li> </ul>	3; OB 55, 56, 57
<ul> <li>Number of isochronous mode OBs</li> </ul>	1; OB 61
<ul> <li>Number of startup OBs</li> </ul>	1; OB 100
<ul> <li>Number of asynchronous error OBs</li> </ul>	5; OB 80, 82, 85, 86, 87
<ul> <li>Number of synchronous error OBs</li> </ul>	2; OB 121, 122
Nesting depth	
<ul> <li>per priority class</li> </ul>	16
<ul> <li>additional within an error OB</li> </ul>	4
Counters, timers and their retentivity	
S7 counter	
Number	256
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	255
— preset	Z 0 to Z 7
Counting range	201021
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
• Type	SFB
Number	
	Unlimited (limited only by RAM capacity)
S7 times	256
Number  Retentivity	256
Retentivity	Voc
— adjustable	Yes
— lower limit	0
— upper limit	255
— preset	No retentivity
Time range	40
— lower limit	10 ms
— upper limit	9 990 s
IEC timer	
• present	Yes
• Type	SFB
Number	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	

Retentive data area (incl. timers, counters, flags), max.	128 kbyte
Flag	
• Size, max.	2 048 byte
<ul> <li>Retentivity available</li> </ul>	Yes; MB 0 to MB 2 047
Retentivity preset	MB 0 to MB 15
Number of clock memories	8; 1 memory byte
Data blocks	
<ul> <li>Retentivity adjustable</li> </ul>	Yes; via non-retain property on DB
Retentivity preset	Yes
Local data	
<ul> <li>per priority class, max.</li> </ul>	32 kbyte; Max. 2 KB per block
Address area	
I/O address area	
• Inputs	2 048 byte
Outputs	2 048 byte
of which distributed	
— Inputs	2 048 byte
— Outputs	2 048 byte
Process image	
• Inputs	2 048 byte
Outputs	2 048 byte
Inputs, adjustable	2 048 byte
Outputs, adjustable	
Outputs, adjustable     Inputs, default	2 048 byte 384 byte
Outputs, default	384 byte
Subprocess images	4
Number of subprocess images, max.	1
Digital channels	40.004
• Inputs	16 384
— of which central	1 024
• Outputs	16 384
— of which central	1 024
Analog channels	
• Inputs	1 024
— of which central	256
Outputs	1 024
— of which central	256
Hardware configuration	
Number of expansion units, max.	3
Number of DP masters	
• integrated	1
• via CP	4
Number of operable FMs and CPs (recommended)	
• FM	8
• CP, PtP	8
• CP, LAN	10
Rack	
• Racks, max.	4
Modules per rack, max.	8
Time of day	
Clock	Van
Hardware clock (real-time)	Yes
retentive and synchronizable	Yes
Backup time	6 wk; At 40 °C ambient temperature
<ul> <li>Deviation per day, max.</li> </ul>	10 s; Typ.: 2 s
<ul> <li>Behavior of the clock following POWER-ON</li> </ul>	Clock continues running after POWER OFF
<ul> <li>Behavior of the clock following expiry of backup</li> </ul>	the clock continues at the time of day it had when power was switched
period	off

Number/Number range	0
Range of values	0 to 2^31 hours (when using SFC 101)
Granularity	1h
• retentive	Yes; Must be restarted at each restart
Clock synchronization	Yes
<ul><li>supported</li><li>to MPI, master</li></ul>	Yes
• to MPI, slave	Yes
<ul><li>to DP, master</li><li>to DP, slave</li></ul>	Yes; With DP slave only slave clock Yes
• in AS, master	Yes
• in AS, slave	No
Digital inputs	140
Number of digital inputs	0
Digital outputs	
Number of digital outputs	0
Analog inputs	
Number of analog inputs	0
Analog outputs	
Number of analog outputs	0
Interfaces	
Number of industrial Ethernet interfaces	0
Number of PROFINET interfaces	0
Number of RS 485 interfaces	2
Number of RS 422 interfaces	0
1. Interface	
Interface type	Integrated RS 485 interface
Isolated	No
Interface types	
• RS 485	Yes
Output current of the interface, max.	200 mA
Protocols	
• MPI	Yes
<ul> <li>PROFIBUS DP master</li> </ul>	No
<ul> <li>PROFIBUS DP slave</li> </ul>	No
Point-to-point connection	No
MPI	
Transmission rate, max.	187.5 kbit/s
Services	
— PG/OP communication	Yes
— Routing	Yes
Global data communication	Yes
— S7 basic communication	Yes
— S7 communication	Yes; Only server, configured on one side
— S7 communication, as client	No Voc
— S7 communication, as server	Yes
2. Interface	Integrated DC 495 interface
Interface type Isolated	Integrated RS 485 interface Yes
Interface types	160
• RS 485	Yes
Output current of the interface, max.	200 mA
Protocols	
• MPI	No
PROFIBUS DP master	Yes
PROFIBUS DP slave	Yes
Point-to-point connection	No
PROFIBUS DP master	
Transmission rate, max.	12 Mbit/s

<ul> <li>Number of DP slaves, max.</li> </ul>	124; Per station
Services	,. 0. 0.00.
— PG/OP communication	Yes
— Routing	Yes
Global data communication	No
S7 basic communication	Yes; I blocks only
— S7 communication	Yes; Only server, configured on one side
S7 communication     S7 communication, as client	No
— S7 communication, as server	Yes
— Equidistance	Yes
Ligaritation — Isochronous mode	Yes; OB 61
SYNC/FREEZE      Activation/deactivation of DP slaves	Yes Yes
Activation/deactivation of DP slaves     Number of DP slaves that can be	8
simultaneously activated/deactivated, max.	0
— DPV1	Yes
Address area	
— Inputs, max.	2 048 byte
— Outputs, max.	2 048 byte
User data per DP slave	
— Inputs, max.	244 byte
— Outputs, max.	244 byte
PROFIBUS DP slave	211.0300
• GSD file	The latest GSD file is available at: http://www.siemens.com/profibus-gsd
Transmission rate, max.	12 Mbit/s
automatic baud rate search	Yes; only with passive interface
Address area, max.	32
User data per address area, max.	32 byte
Services	32 byte
— PG/OP communication	Yes
— Routing	
Routing     Global data communication	Yes; Only with active interface No
	No
— S7 basic communication	
— S7 communication	Yes; Only server, configured on one side
— S7 communication, as client	No Yea
— S7 communication, as server	Yes
<ul> <li>Direct data exchange (slave-to-slave communication)</li> </ul>	Yes
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
Protocols	
PROFisafe	Yes
	1 00
communication functions / header	Ver
PG/OP communication	Yes
Data record routing	Yes
Global data communication	N.
• supported	Yes
Number of GD loops, max.	8
Number of GD packets, max.	8
Number of GD packets, transmitter, max.	8
Number of GD packets, receiver, max.	8
Size of GD packets, max.	22 byte
Size of GD packet (of which consistent), max.	22 byte
S7 basic communication	
<ul><li>supported</li></ul>	Yes
User data per job, max.	76 byte
<ul> <li>User data per job (of which consistent), max.</li> </ul>	76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or
C7 communication	X_GET as server)
S7 communication	

	V
• supported	Yes
• as server	Yes
as client	Yes; Via CP and loadable FB
User data per job, max.      User data per job, (cf. which per sistent) per series.	180 byte; With PUT/GET
User data per job (of which consistent), max.	240 byte; as server
S5 compatible communication	V : 0D II III 50
• supported	Yes; via CP and loadable FC
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	12
— reserved for S7 basic communication	0
— adjustable for S7 basic communication, min.	0
— adjustable for S7 basic communication, max.	12
S7 message functions	
Number of login stations for message functions, max.	16; Depending on the configured connections for PG/OP and S7 basic communication
Process diagnostic messages	Yes
simultaneously active Alarm-S blocks, max.	300
Test commissioning functions	
Status block	Yes; Up to 2 simultaneously
Single step	Yes
Number of breakpoints	4
Status/control	
• Status/control variable	Yes
- Variables	Inputs, outputs, memory bits, DB, times, counters
<ul> <li>Variables</li> </ul>	
Number of variables, max.	30
<ul><li>Number of variables, max.</li><li>— of which status variables, max.</li></ul>	
<ul> <li>Number of variables, max.</li> <li>— of which status variables, max.</li> <li>— of which control variables, max.</li> </ul>	30
<ul> <li>Number of variables, max.</li> <li>— of which status variables, max.</li> <li>— of which control variables, max.</li> </ul> Forcing	30 30
<ul> <li>Number of variables, max.</li> <li>— of which status variables, max.</li> <li>— of which control variables, max.</li> <li>Forcing</li> <li>Forcing</li> </ul>	30 30
<ul> <li>Number of variables, max.</li> <li>— of which status variables, max.</li> <li>— of which control variables, max.</li> <li>Forcing</li> <li>Forcing, variables</li> </ul>	30 30 14
<ul> <li>Number of variables, max.</li> <li>— of which status variables, max.</li> <li>— of which control variables, max.</li> <li>Forcing</li> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul>	30 30 14 Yes
<ul> <li>Number of variables, max.</li> <li>— of which status variables, max.</li> <li>— of which control variables, max.</li> <li>Forcing</li> <li>Forcing, variables</li> </ul>	30 30 14  Yes Inputs, outputs
<ul> <li>Number of variables, max.         <ul> <li>of which status variables, max.</li> <li>of which control variables, max.</li> </ul> </li> <li>Forcing         <ul> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul> </li> <li>Diagnostic buffer         <ul> <li>present</li> </ul> </li> </ul>	30 30 14  Yes Inputs, outputs
<ul> <li>Number of variables, max.         <ul> <li>of which status variables, max.</li> <li>of which control variables, max.</li> </ul> </li> <li>Forcing         <ul> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul> </li> <li>Diagnostic buffer</li> </ul>	30 30 14  Yes Inputs, outputs 10
<ul> <li>Number of variables, max.         <ul> <li>of which status variables, max.</li> <li>of which control variables, max.</li> </ul> </li> <li>Forcing         <ul> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul> </li> <li>Diagnostic buffer         <ul> <li>present</li> <li>Number of entries, max.</li> <li>adjustable</li> </ul> </li> </ul>	30 30 14  Yes Inputs, outputs 10
<ul> <li>Number of variables, max.         <ul> <li>of which status variables, max.</li> <li>of which control variables, max.</li> </ul> </li> <li>Forcing         <ul> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul> </li> <li>Diagnostic buffer         <ul> <li>present</li> <li>Number of entries, max.</li> </ul> </li> </ul>	30 30 14  Yes Inputs, outputs 10  Yes 500
<ul> <li>Number of variables, max.         <ul> <li>of which status variables, max.</li> <li>of which control variables, max.</li> </ul> </li> <li>Forcing         <ul> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul> </li> <li>Diagnostic buffer         <ul> <li>present</li> <li>Number of entries, max.</li> <li>adjustable</li> </ul> </li> </ul>	30 30 14  Yes Inputs, outputs 10  Yes 500 No
<ul> <li>Number of variables, max.         <ul> <li>of which status variables, max.</li> <li>of which control variables, max.</li> </ul> </li> <li>Forcing         <ul> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul> </li> <li>Diagnostic buffer         <ul> <li>present</li> <li>Number of entries, max.</li> <li>adjustable</li> <li>of which powerfail-proof</li> </ul> </li> </ul>	30 30 14  Yes Inputs, outputs 10  Yes 500 No
<ul> <li>Number of variables, max.         <ul> <li>of which status variables, max.</li> <li>of which control variables, max.</li> </ul> </li> <li>Forcing         <ul> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul> </li> <li>Diagnostic buffer         <ul> <li>present</li> <li>Number of entries, max.</li> <li>adjustable</li> <li>of which powerfail-proof</li> <li>Number of entries readable in RUN, max.</li> </ul> </li> </ul>	30 30 14  Yes Inputs, outputs 10  Yes 500 No 100; Only the last 100 entries are retained
<ul> <li>Number of variables, max.         <ul> <li>of which status variables, max.</li> <li>of which control variables, max.</li> </ul> </li> <li>Forcing         <ul> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul> </li> <li>Diagnostic buffer         <ul> <li>present</li> <li>Number of entries, max.</li> <li>adjustable</li> <li>of which powerfail-proof</li> </ul> </li> <li>Number of entries readable in RUN, max.         <ul> <li>adjustable</li> </ul> </li> </ul>	30 30 14  Yes Inputs, outputs 10  Yes 500 No 100; Only the last 100 entries are retained  Yes; From 10 to 499
Number of variables, max.  — of which status variables, max.  — of which control variables, max.  Forcing  • Forcing  • Forcing, variables  • Number of variables, max.  Diagnostic buffer  • present  • Number of entries, max.  — adjustable  — of which powerfail-proof  • Number of entries readable in RUN, max.  — adjustable  — adjustable  — preset	30 30 14  Yes Inputs, outputs 10  Yes 500 No 100; Only the last 100 entries are retained  Yes; From 10 to 499
Number of variables, max.  — of which status variables, max.  — of which control variables, max.  Forcing  • Forcing  • Forcing, variables  • Number of variables, max.  Diagnostic buffer  • present  • Number of entries, max.  — adjustable  — of which powerfail-proof  • Number of entries readable in RUN, max.  — adjustable  — preset  Service data	30 30 14  Yes Inputs, outputs 10  Yes 500 No 100; Only the last 100 entries are retained  Yes; From 10 to 499 10
Number of variables, max.  — of which status variables, max.  — of which control variables, max.  Forcing  Forcing  Forcing, variables  Number of variables, max.  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	30 30 14  Yes Inputs, outputs 10  Yes 500 No 100; Only the last 100 entries are retained  Yes; From 10 to 499 10
Number of variables, max.  — of which status variables, max.  — of which control variables, max.  Forcing  • Forcing  • Forcing, variables  • Number of variables, max.  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  Ambient conditions	30 30 14  Yes Inputs, outputs 10  Yes 500 No 100; Only the last 100 entries are retained  Yes; From 10 to 499 10
Number of variables, max.  — of which status variables, max.  — of which control variables, max.  Forcing  • Forcing  • Forcing, variables  • Number of variables, max.  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  Ambient conditions  Ambient temperature during operation	30 30 14  Yes Inputs, outputs 10  Yes 500 No 100; Only the last 100 entries are retained  Yes; From 10 to 499 10  Yes
<ul> <li>Number of variables, max.         <ul> <li>of which status variables, max.</li> <li>of which control variables, max.</li> </ul> </li> <li>Forcing         <ul> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul> </li> <li>Diagnostic buffer         <ul> <li>present</li> <li>Number of entries, max.</li> <li>adjustable</li> <li>of which powerfail-proof</li> </ul> </li> <li>Number of entries readable in RUN, max.         <ul> <li>adjustable</li> <li>preset</li> </ul> </li> <li>Service data         <ul> <li>can be read out</li> </ul> </li> <li>Ambient conditions</li> <li>Ambient temperature during operation</li> <li>min.</li> <li>max.</li> </ul>	30 30 14  Yes Inputs, outputs 10  Yes 500 No 100; Only the last 100 entries are retained  Yes; From 10 to 499 10  Yes
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<ul> <li>Number of variables, max.         <ul> <li>of which status variables, max.</li> <li>of which control variables, max.</li> </ul> </li> <li>Forcing         <ul> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul> </li> <li>Diagnostic buffer         <ul> <li>present</li> <li>Number of entries, max.</li> <li>adjustable</li> <li>of which powerfail-proof</li> </ul> </li> <li>Number of entries readable in RUN, max.         <ul> <li>adjustable</li> <li>preset</li> </ul> </li> <li>Service data         <ul> <li>can be read out</li> </ul> </li> <li>Ambient conditions</li> <li>Ambient temperature during operation</li> <li>min.</li> <li>max.</li> </ul>	30 30 14  Yes Inputs, outputs 10  Yes 500 No 100; Only the last 100 entries are retained  Yes; From 10 to 499 10  Yes  0 °C 60 °C
<ul> <li>Number of variables, max.         <ul> <li>of which status variables, max.</li> <li>of which control variables, max.</li> </ul> </li> <li>Forcing         <ul> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul> </li> <li>Diagnostic buffer         <ul> <li>present</li> <li>Number of entries, max.</li> <li>adjustable</li> <li>of which powerfail-proof</li> </ul> </li> <li>Number of entries readable in RUN, max.         <ul> <li>adjustable</li> <li>preset</li> </ul> </li> <li>Service data         <ul> <li>can be read out</li> </ul> </li> <li>Ambient conditions</li> <li>Ambient temperature during operation         <ul> <li>min.</li> <li>max.</li> </ul> </li> <li>configuration / header</li> <li>Configuration software</li> <li>STEP 7</li> </ul>	30 30 14  Yes Inputs, outputs 10  Yes 500 No 100; Only the last 100 entries are retained  Yes; From 10 to 499 10  Yes
<ul> <li>Number of variables, max.         <ul> <li>of which status variables, max.</li> <li>of which control variables, max.</li> </ul> </li> <li>Forcing         <ul> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul> </li> <li>Diagnostic buffer         <ul> <li>present</li> <li>Number of entries, max.</li> <li>adjustable</li> <li>of which powerfail-proof</li> </ul> </li> <li>Number of entries readable in RUN, max.         <ul> <li>adjustable</li> <li>preset</li> </ul> </li> <li>Service data         <ul> <li>can be read out</li> </ul> </li> <li>Ambient conditions</li> <li>Ambient temperature during operation         <ul> <li>min.</li> <li>max.</li> </ul> </li> <li>configuration / header</li> <li>Configuration software</li> </ul>	30 30 14  Yes Inputs, outputs 10  Yes 500 No 100; Only the last 100 entries are retained  Yes; From 10 to 499 10  Yes  O °C 60 °C  Yes; V5.2 SP1 or higher with HW update
<ul> <li>Number of variables, max.         <ul> <li>of which status variables, max.</li> <li>of which control variables, max.</li> </ul> </li> <li>Forcing         <ul> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul> </li> <li>Diagnostic buffer         <ul> <li>present</li> <li>Number of entries, max.</li> <li>adjustable</li> <li>of which powerfail-proof</li> </ul> </li> <li>Number of entries readable in RUN, max.         <ul> <li>adjustable</li> <li>preset</li> </ul> </li> <li>Service data         <ul> <li>can be read out</li> </ul> </li> <li>Ambient conditions</li> <li>Ambient temperature during operation         <ul> <li>min.</li> <li>max.</li> </ul> </li> <li>configuration / header</li> <li>Configuration software</li> <li>STEP 7</li> <li>configuration / programming / header</li> </ul>	30 30 14  Yes Inputs, outputs 10  Yes 500 No 100; Only the last 100 entries are retained  Yes; From 10 to 499 10  Yes  0 °C 60 °C

<ul> <li>System functions (SFC)</li> </ul>	see instruction list	
<ul> <li>System function blocks (SFB)</li> </ul>	see instruction list	
Programming language		
— LAD	Yes	
— FBD	Yes	
— STL	Yes	
— SCL	Yes	
— CFC	Yes	
— GRAPH	Yes	
— HiGraph®	Yes	
Know-how protection		
<ul> <li>User program protection/password protection</li> </ul>	Yes	
<ul> <li>Block encryption</li> </ul>	Yes; With S7 block Privacy	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	130 mm	
Weights		
Weight, approx.	290 g	

8/24/2021

last modified: