

CPU 6ES7315-2EH14-0AB0

URL:https://www.sxplc.com/index.php?route=product/product&product_id=5924

Product data sheet

General information

HW functional status 01

Firmware version V3.2

Product function

- Isochronous mode Yes; Via PROFIBUS DP or PROFINET interface

Engineering with

- Programming package STEP 7 V5.5 or higher

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

Input current

Current consumption (rated value) 750 mA

Current consumption (in no-load operation), typ. 150 mA

Inrush current, typ. 4 A

I^2t 1 A²·s

Power loss

Power loss, typ. 4.65 W

Memory

Work memory

- integrated 384 kbyte

- expandable No

Load memory

- Plug-in (MMC) Yes

- Plug-in (MMC), max. 8 Mbyte

- Data management on MMC (after last

programming), min.

10 y

Backup

- present Yes; Guaranteed by MMC (maintenance-free)

- without battery Yes; Program and data

CPU processing times

for bit operations, typ. 0.05 μ s

for word operations, typ. 0.09 μ s

for fixed point arithmetic, typ. 0.12 μ s

for floating point arithmetic, typ. 0.45 μ s

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

- Number, max. 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

- Number, max. 1 024; Number range: 0 to 7999

- Size, max. 64 kbyte

OB

- Size, max. 64 kbyte
- Number of free cycle OBs 1; OB 1
- Number of time alarm OBs 1; OB 10
- Number of delay alarm OBs 2; OB 20, 21
- Number of cyclic interrupt OBs 4; OB 32, 33, 34, 35
- Number of process alarm OBs 1; OB 40
- Number of DPV1 alarm OBs 3; OB 55, 56, 57
- Number of isochronous mode OBs 1; OB 61
- Number of startup OBs 1; OB 100
- Number of asynchronous error OBs 6; OB 80, 82, 83, 85, 86, 87 (OB83 only for PROFINET IO)
- Number of synchronous error OBs 2; OB 121, 122

Nesting depth

- per priority class 16
- additional within an error OB 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

- adjustable Yes
- lower limit 0
- upper limit 999

IEC counter

- present Yes
- Type SFB
- Number Unlimited (limited only by RAM capacity)

S7 times

- Number 256

Retentivity

— adjustable Yes

— lower limit 0

— upper limit 255

— preset No retentivity

Time range

— lower limit 10 ms

— upper limit 9 990 s

IEC timer

- present Yes

- Type SFB

- Number Unlimited (limited only by RAM capacity)

