

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS SIMOTION

6AU1435-2AD00-0AA0

D435-2 CONTROL UNIT

Used with the applicable SIMOTION motion control configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official product documentation

SIMOTION Drive-based Control Unit D435-2 DP/PN; programmable motion controller; STANDARD performance; interfaces: 12 DI, 16 DI/DO, 6 DRIVE-CLiQ, 2 PROFIBUS, 3 PROFINET ports, 2 ethernet, 2 USB, 1 option slot; incl. dual fan / battery module and battery



Article number

product brandname

SIMOTION

Product type designation

D435-2 DP/PN

Performance class for motion control system

STANDARD Performance

Version of the motion control system

Multiple-axis system

PLC and motion control performance

Number of axes / maximum

32

Minimum PROFIBUS cycle clock

1 ms

Minimum PROFINET send cycle clock

0.25 ms

Minimum interpolator cycle clock

0.25 ms

Minimum servo cycle clock

0.25 ms

• note

0.25 ms for SERVO or SERVO-FAST

Integrated drive control

Maximum number of axes for integrated drive control

• servo

6

• vector

6

• V/f

12

• note

Alternative control modes; drive control based on SINAMICS S120 CU320-2, firmware version V4.x

Memory	
RAM (work memory)	86 Mbyte
Additional RAM work memory for Java applications	20 Mbyte
RAM disk (load memory)	41 Mbyte
Retentive memory	364 kbyte
Persistent memory (user data on CF)	300 Mbyte
Communication	
Interfaces	
• DRIVE-CLiQ	6
• USB	2
• Industrial Ethernet	2
• PROFIBUS	2
— note	Equidistant and isochronous; Can be configured as master or slave
• PROFINET	1
— note	1 interface with 3 ports onboard 1 interface with 4 ports optional via CBE30-2 functionality: - supports PROFINET IO with IRT and RT - configurable as PROFINET IO Control and/or device - supports media redundancy (MRP and MRPD)
General technical data	
Fan	Double fan/battery module included in scope of delivery
DC supply voltage	
• rated value	24 V
• minimum	20.4 V
• maximum	28.8 V
Consumed current / typical	1 000 mA
• Note	with no load on inputs/outputs, no 24 V supply via DRIVE-CLiQ and PROFIBUS interface
Making current, typ.	5 A
Power loss [W] / typical	24 W
Ambient temperature, during	
• long-term storage	-25 ... +55 °C
• transport	-40 ... +70 °C
• operation	0 ... 55 °C
— note	Maximum installation altitude 4000 m (13124 ft) above sea level. Above an altitude of 2000 m (6562 ft), the maximum ambient temperature decreases by 7 °C (44.6 °F) per 1000 m (3281 ft).
Relative humidity	
• during operation	5 ... 95 %
• without condensation, tested acc. to IEC 60068-2-38	Wert fehlt
Product property / Conformal coating	No
Resistance	