

OFFICIAL MANUFACTURER DOCUMENT PACKAGE

Installation Instructions

6AU1425-2AD00-0AA0

Siemens official documentation for the exact article number.

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Selected official Siemens pages follow this cover.

6AU1425-2AD00-0AA0 (UPC: 040892974959)**SIMOTION D425-2 DP/PN****Technical data**

Figure similar

SIMOTION Drive-based Control Unit D425-2 DP/PN; programmable motion controller; BASIC performance; interfaces: 12 DI, 16 DI/DO, 4 DRIVE-CLiQ, 2 PROFIBUS, 3 PROFINET ports, 2 ethernet, 2 USB, 1 option slot; incl. dual fan / battery module and battery

product brand name	SIMOTION
product type designation	D425-2 DP/PN
Performance class for motion control system	BASIC Performance
Version of the motion control system	Multiple-axis system
PLC and motion control performance	
number of axes / maximum	16
Minimum PROFIBUS cycle clock	1 ms
Minimum PROFINET send cycle clock	0.25 ms
Minimum interpolator cycle clock	0.5 ms
Minimum servo cycle clock	0.5 ms
Integrated drive control / header	
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/V5.x
Memory	
RAM (work memory)	78 Mbyte
Additional RAM work memory for Java applications	20 Mbyte
RAM disk (load memory)	38 Mbyte
Retentive memory	364 kbyte
Persistent memory (user data on CF)	1.5 Gbyte
Communication	
Interfaces	
• DRIVE-CLiQ	4
• 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 Controller 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, typ.	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 (12.6 °F) per 1000 m (3281 ft).
Relative humidity	
• during operation	5 ... 95 %