

SIPLUS D435-2 DP/PN 0...+55 °C with conformal coating based on 6AU1435-2AD00-0AA0 . SIPLUS Drive-based Control "Unit D435-2 DP/PN;" Programmable "Motion Control 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." Double fan/battery module and battery



Figure similar

Article number	
Product brand name	SIPLUS
Product type designation	D435-2 DP/PN SIPLUS
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
<ul style="list-style-type: none"> note 	0.25 ms for SERVO or SERVO-FAST

Integrated drive control	
Maximum number of axes for integrated drive control	
<ul style="list-style-type: none"> servo 	6
<ul style="list-style-type: none"> vector 	6
<ul style="list-style-type: none"> 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)	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 (12.6 °F) per 1000 m (3281 ft).
Relative humidity	
• during operation	0 ... 100 %
• without condensation, tested acc. to IEC 60068-2-38	condensation/frost permitted (no commissioning in bedewed state)

Product property / Conformal coating	Yes
Resistance	Yes
<ul style="list-style-type: none"> to biologically active substances / conformity acc. to EN 60721-3-3 — Note 	Class 3B2 mold and fungal spores (except fauna); For operation, the plug covers included in delivery must be left on the unused interfaces!
<ul style="list-style-type: none"> to chemically active substances / conformity acc. to EN 60721-3-3 — Note 	Yes Class 3C4 incl. salt spray in accordance with EN 60068-2-52 (severity 3); the supplied plug covers must remain in place on the unused interfaces during operation.
Air pressure	620 ... 1 060 hPa
Degree of protection	IP20
Height	380 mm
Width	50 mm
Depth	270 mm
<ul style="list-style-type: none"> Note 	When the spacer is removed 230 mm (9.05 in) deep
Net weight	3 700 g

Digital inputs

Number of digital inputs	12
DC input voltage	
<ul style="list-style-type: none"> rated value for signal "1" for signal "0" 	24 V 15 ... 30 V -3 ... +5 V
Electrical isolation	Yes
<ul style="list-style-type: none"> note 	Yes, in groups of 6
Current consumption for "1" signal level, typ.	9 mA
Input delay time for	
<ul style="list-style-type: none"> signal "0" → "1", typ. signal "1" → "0", typ. 	50 µs 150 µs

Digital inputs/outputs

Number of digital I/Os	16
Parameterization possibility of the digital I/Os	can be parameterized - as DI - as DO - as probe input (max. 16) - as cam output (max. 8)

If used as an input

DC input voltage	
<ul style="list-style-type: none"> rated value for signal "1" for signal "0" 	24 V 15 ... 30 V -3 ... +5 V
Electrical isolation	No
Current consumption for "1" signal level, typ.	9 mA

Input delay time for	
<ul style="list-style-type: none"> • signal "0" → "1", typ. • signal "1" → "0", typ. 	5 μs 50 μs
Measuring input / reproducibility	5 μs
Measuring input / resolution	1 μs

If used as an output

Load voltage	
<ul style="list-style-type: none"> • rated value • minimum • maximum 	24 V 20.4 V 28.8 V
Electrical isolation	No
Current carrying capacity for each output, max.	500 mA
Leakage current, max.	2 mA
Output delay for	
<ul style="list-style-type: none"> • signal "0" → "1", typ. • signal "0" → "1", max. • signal "1" → "0", typ. • signal "1" → "0", max. — note 	150 μs 400 μs 75 μs 150 μs Data for Vcc = 24 V; load 48 Ohm; "1" = 90 % VOut, "0" = 10 % VOut
Cam output	
<ul style="list-style-type: none"> • reproducibility • resolution 	10 μs 1 μs
Switching frequency of the outputs for	
<ul style="list-style-type: none"> • resistive load, max. • inductive load, max. • lamp load, max. 	4 kHz 2 Hz 11 Hz
Short-circuit protection	Yes

Additional technical data

Back-up of non-volatile data	
<ul style="list-style-type: none"> • of retentive data • of real-time clock, min. • note 	unlimited buffer duration 4 d longer buffer duration of the real-time clock using a battery inserted in the double fan/battery module
Approvals	
<ul style="list-style-type: none"> • USA • Canada • Australia • Korea • Russia, Belarus and Kazakhstan 	cULus cULus RCM (formerly C-Tick) No EAC