SIEMENS

Data sheet

6AG1435-2AD00-4AA0



SIPLUS D435-2 DP/PN based on 6AU1435-2AD00-0AA0 with conformal coating, 0...+55 °C, SIPLUS Drive-based Control Unit D435-2 DP/PN; programmable motion control system; standard performance; interfaces: 12 DI, 16 DI/DQ, 6 DRIVE-CLiQ 2 PROFIBUS, 3 PROFINET ports, 2 Ethernet, 2 USB, 1 option slot; including double fan/battery module and battery

Figure similar

functionality: supports PROFINET IO with IRT and RT; configurable as		OIDLUG
Performance class for motion control system Version of the motion control system PLC and motion control performance number of axes / maximum 32 Minimum PROFIBUS cycle clock Minimum PROFIBUS cycle clock 0.25 ms Minimum elterpolator cycle clock 0.25 ms Minimum estro cycle clock 0.25 ms Minimum of axes for integrated drive control servo 6 vector 6 vector 12 Attenative control modes: drive control based on SINAMICS \$120 CU320-2, firmware version V4 x/V5 x Memory RAM (work memory) Additional RAM work memory for Java applications RAM disk (load memory) Retentive memory 364 kbyte Persistent memory (user data on CF) 0 Sight Communication Interfaces • DRIVE-CLIQ • USB • Industrial Ethernet • PROFIBUS — note • PROFIBUS — note • PROFINET 1 Interface with 3 ports onboard; 1 interface with 4 ports optional via CBE30-2 functionality; supports Reflixer with 4 ports optional via CBE30-2 functionality; supports PROFINET 10 with IRT and RT; configurable as PROFINET 10 controller and/or Device; supports media redundancy (MRP at MRPD) General technical data	·	
Version of the motion control system PLC and motion control performance number of axes / maximum 32 Minimum PROFIBUS cycle clock Minimum interpolator cycle clock 0.25 ms Minimum interpolator cycle clock 0.25 ms	· · · · · · · · · · · · · · · · · · ·	
PLC and motion control performance number of axes / maximum Minimum PROFIBUS cycle clock Minimum PROFINET send cycle clock Minimum interpolator cycle clock • note • note Integrated drive control / header Maximum number of axes for integrated drive control • servo • vector • vector • vector • vote • note Alternative control modes; drive control based on SINAMICS S120 CU320-2, firmware version V4.x/V5.x Memory		
number of axes / maximum 32	,	Multiple-axis system
Minimum PROFIBUS cycle clock Minimum PROFIBUS cycle clock Minimum interpolator cycle clock 0.25 ms Minimum interpolator cycle clock 0.25 ms 0.26 ms 0.26 ms 0.27 ms 0	PLC and motion control performance	
Minimum PROFINET send cycle clock Minimum interpolator cycle clock Minimum servo cycle clock • note • note • note Maximum number of axes for integrated drive control • servo • servo • vector • vector • vertor • note Alternative control modes; drive control based on SINAMICS \$120 CU320-2, firmware version V4.x/V5.x Memory RAM (work memory) Additional RAM work memory for Java applications RAM disk (load memory) Retentive memory Retentive memory Persistent memory (user data on CF) Ommunication Interfaces • DRIVE-CLIQ • ING • ING • ING • ING • PROFIBUS — note • PROFIBUS — note • PROFIBUS — note • PROFIBUS — note • Interface with 4 ports optional via CBE30-2 functionality; supports media redundancy (MRP ar MRPD) General technical data	number of axes / maximum	
Minimum interpolator cycle clock Minimum servo cycle clock once	Minimum PROFIBUS cycle clock	1 ms
Minimum servo cycle clock • note 0.25 ms 0.25 ms for SERVO or SERVO-FAST Integrated drive control / header Maximum number of axes for integrated drive control • servo • vector • V/f • note Alternative control modes; drive control based on SINAMICS S120 CU320-2, firmware version V4.x/V5.x Memory RAM (work memory) Additional RAM work memory for Java applications RAM disk (load memory) 50 Mbyte Retentive memory Persistent memory (user data on CF) Communication Interfaces • DRIVE-CLIQ • USB • Industrial Ethernet • PROFIBUS — note • PROFIBUS — note • PROFINET 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 ar MRPD) General technical data	Minimum PROFINET send cycle clock	0.25 ms
note	Minimum interpolator cycle clock	0.25 ms
Integrated drive control / header Maximum number of axes for integrated drive control • servo • vector • vetor • note Alternative control modes; drive control based on SINAMICS S120 CU320-2, firmware version V4.x/V5.x Memory RAM (work memory) RAM (work memory) RAM disk (load memory) Retentive memory Persistent memory (user data on CF) Tomunication Interfaces • DRIVE-CLIQ • USB • Industrial Ethernet • PROFIBUS — note • PROFINET — note • PROFINET — 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	Minimum servo cycle clock	0.25 ms
Maximum number of axes for integrated drive control	• note	0.25 ms for SERVO or SERVO-FAST
• servo • vector • V/f • Note • Alternative control modes; drive control based on SINAMICS S120 CU320-2, firmware version V4.x/V5 x Memory	Integrated drive control / header	
vector	Maximum number of axes for integrated drive control	
It is note Alternative control modes; drive control based on SINAMICS S120 CU320-2, firmware version V4.x/V5.x Memory RAM (work memory) Additional RAM work memory for Java applications RAM disk (load memory) Retentive memory 364 kbyte Persistent memory (user data on CF) Communication Interfaces DRIVE-CLIQ USB PROFIBUS PROFIBUS - note PROFINET - note PROFINET 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	• servo	6
Alternative control modes; drive control based on SINAMICS S120 CU320-2, firmware version V4.x/V5.x Memory RAM (work memory) Additional RAM work memory for Java applications RAM disk (load memory) Retentive memory 364 kbyte Persistent memory (user data on CF) Communication Interfaces • DRIVE-CLIQ • USB • Industrial Ethernet • PROFIBUS — note • PROFINET — note • PROFINET — note 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	• vector	6
firmware version V4.x/V5.x Memory RAM (work memory) Additional RAM work memory for Java applications 20 Mbyte RAM disk (load memory) 80 Mbyte Retentive memory 80 A64 kbyte Persistent memory (user data on CF) 81.5 Gbyte Communication Interfaces PROFIBUS PROFIBUS PROFIBUS PROFIBUS PROFINET 1 note PROFINET 1 note PROFINET 1 note 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	• V/f	12
RAM (work memory) Additional RAM work memory for Java applications 20 Mbyte RAM disk (load memory) Retentive memory Persistent memory (user data on CF) Communication Interfaces • DRIVE-CLIQ • USB • Industrial Ethernet • PROFIBUS — note • PROFINET — note • PROFINET — note • PROFINET 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	• note	
Additional RAM work memory for Java applications RAM disk (load memory) Retentive memory Persistent memory (user data on CF) 1.5 Gbyte Communication Interfaces • DRIVE-CLIQ • USB • Industrial Ethernet • PROFIBUS — note • PROFINET — note • PROFINET — note General technical data 20 Mbyte 20 Mbyte 1.5 Gbyte 1.5 Gbyte 1.5 Gbyte 6 • L5 Gbyte 2 - L5 Gbyte 1.5	Memory	
RAM disk (load memory) Retentive memory 364 kbyte Persistent memory (user data on CF) 1.5 Gbyte Communication Interfaces DRIVE-CLIQ USB Industrial Ethernet PROFIBUS PROFIBUS PROFINET 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	RAM (work memory)	109 Mbyte
Retentive memory Persistent memory (user data on CF) 1.5 Gbyte Communication Interfaces DRIVE-CLIQ USB Industrial Ethernet PROFIBUS Inote PROFIBUS Industrial Ethernet PROFINET Inote PROFINET 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	Additional RAM work memory for Java applications	20 Mbyte
Persistent memory (user data on CF) 1.5 Gbyte Communication Interfaces DRIVE-CLIQ USB Industrial Ethernet PROFIBUS note PROFINET note PROFINET 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	RAM disk (load memory)	50 Mbyte
Interfaces DRIVE-CLIQ USB Industrial Ethernet PROFIBUS PROFINET 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	Retentive memory	364 kbyte
Interfaces • DRIVE-CLIQ • USB • Industrial Ethernet • PROFIBUS — note • PROFINET — note 1 interface with 3 ports onboard; 1 interface with 4 ports optional via CBE30-2 functionality: supports PROFINET IO Controller and/or Device; supports media redundancy (MRP ar MRPD) General technical data	Persistent memory (user data on CF)	1.5 Gbyte
DRIVE-CLIQ USB Industrial Ethernet PROFIBUS — note PROFINET — note PROFINET — note Tinterface 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	Communication	
 USB Industrial Ethernet PROFIBUS note PROFINET note Equidistant and isochronous; Can be configured as master or slave PROFINET 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 ar MRPD) 	Interfaces	
 Industrial Ethernet PROFIBUS note PROFINET note Equidistant and isochronous; Can be configured as master or slave PROFINET 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 ar MRPD) 	DRIVE-CLiQ	6
 PROFIBUS note Equidistant and isochronous; Can be configured as master or slave PROFINET note 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 ar MRPD) General technical data 	• USB	2
 — note ■ PROFINET — 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 ar MRPD) 	Industrial Ethernet	2
PROFINET 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 ar MRPD) General technical data	• PROFIBUS	2
— 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 ar MRPD) General technical data	— note	Equidistant and isochronous; Can be configured as master or slave
functionality: supports PROFINET IO with IRT and RT; configurable as PROFINET IO Controller and/or Device; supports media redundancy (MRP ar MRPD) General technical data	• PROFINET	1
	— note	PROFINET IO Controller and/or Device; supports media redundancy (MRP and
Fan Double fan/battery module included in scope of delivery	General technical data	
	Fan	Double fan/battery module included in scope of delivery
DC supply voltage	DC supply voltage	
• rated value 24 V	• 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	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	
 to biologically active substances, / conformity acc. to EN 60721-3-3 	Yes
— Note	Class 3B2 mold and fungal spores (except fauna); For operation, the plug covers included in delivery must be left on the unused interfaces!
 to chemically active substances, / conformity acc. to EN 60721-3-3 	Yes
— Note	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 / UL open type
height	380 mm
width	50 mm
• depth	270 mm
depthDepth / Note	270 mm When the spacer is removed 230 mm (9.05 in) deep
Depth / Note	When the spacer is removed 230 mm (9.05 in) deep
Depth / Note net weight	When the spacer is removed 230 mm (9.05 in) deep
Depth / Note net weight Digital inputs / header	When the spacer is removed 230 mm (9.05 in) deep 3 700 g
Depth / Note net weight Digital inputs / header number of digital inputs	When the spacer is removed 230 mm (9.05 in) deep 3 700 g
Depth / Note net weight Digital inputs / header number of digital inputs DC input voltage rated value	When the spacer is removed 230 mm (9.05 in) deep 3 700 g
Depth / Note net weight Digital inputs / header number of digital inputs DC input voltage rated value for signal "1"	When the spacer is removed 230 mm (9.05 in) deep 3 700 g 12 24 V
Depth / Note net weight Digital inputs / header number of digital inputs DC input voltage rated value	When the spacer is removed 230 mm (9.05 in) deep 3 700 g 12 24 V 15 30 V
Depth / Note net weight Digital inputs / header number of digital inputs DC input voltage rated value for signal "1" for signal "0"	When the spacer is removed 230 mm (9.05 in) deep 3 700 g 12 24 V 15 30 V -3 +5 V
Depth / Note net weight Digital inputs / header number of digital inputs DC input voltage	When the spacer is removed 230 mm (9.05 in) deep 3 700 g 12 24 V 15 30 V -3 +5 V Yes
Depth / Note net weight Digital inputs / header number of digital inputs DC input voltage	When the spacer is removed 230 mm (9.05 in) deep 3 700 g 12 24 V 15 30 V -3 +5 V Yes Yes, in groups of 6
Depth / Note net weight Digital inputs / header number of digital inputs DC input voltage	When the spacer is removed 230 mm (9.05 in) deep 3 700 g 12 24 V 15 30 V -3 +5 V Yes Yes, in groups of 6 9 mA
■ Depth / Note net weight Digital inputs / header number of digital inputs DC input voltage ■ rated value ● for signal "1" ● for signal "0" Electrical isolation ● note Current consumption for "1" signal level, typ. Input delay time for ● signal "0" → "1", typ.	When the spacer is removed 230 mm (9.05 in) deep 3 700 g 12 24 V 15 30 V -3 +5 V Yes Yes, in groups of 6 9 mA 50 µs
■ Depth / Note net weight Digital inputs / header number of digital inputs DC input voltage ■ rated value ● for signal "1" ● for signal "0" Electrical isolation ■ note Current consumption for "1" signal level, typ. Input delay time for ● signal "0" → "1", typ. ● signal "1" → "0", typ.	When the spacer is removed 230 mm (9.05 in) deep 3 700 g 12 24 V 15 30 V -3 +5 V Yes Yes, in groups of 6 9 mA
Depth / Note net weight Digital inputs / header number of digital inputs DC input voltage • rated value • for signal "1" • for signal "0" Electrical isolation • note Current consumption for "1" signal level, typ. Input delay time for • signal "0" → "1", typ. • signal "1" → "0", typ. Digital inputs/outputs / header	When the spacer is removed 230 mm (9.05 in) deep 3 700 g 12 24 V 15 30 V -3 +5 V Yes Yes, in groups of 6 9 mA 50 μs 150 μs
■ Depth / Note net weight Digital inputs / header number of digital inputs DC input voltage ■ rated value ● for signal "1" ● for signal "0" Electrical isolation ■ note Current consumption for "1" signal level, typ. Input delay time for ● signal "0" → "1", typ. ● signal "1" → "0", typ.	When the spacer is removed 230 mm (9.05 in) deep 3 700 g 12 24 V 15 30 V -3 +5 V Yes Yes, in groups of 6 9 mA 50 µs
■ Depth / Note net weight Digital inputs / header number of digital inputs DC input voltage ■ rated value ● for signal "1" ● for signal "0" Electrical isolation ● note Current consumption for "1" signal level, typ. Input delay time for ● signal "0" → "1", typ. ● signal "1" → "0", typ. Digital inputs/outputs / header Number of digital I/Os	When the spacer is removed 230 mm (9.05 in) deep 3 700 g 12 24 V 15 30 V -3 +5 V Yes Yes, in groups of 6 9 mA 50 µs 150 µs 16 can be parameterized - as DI - as DO - as probe input (max. 16) - as cam
■ Depth / Note net weight Digital inputs / header number of digital inputs DC input voltage ■ rated value ● for signal "1" ● for signal "0" Electrical isolation ● note Current consumption for "1" signal level, typ. Input delay time for ● signal "0" → "1", typ. ● signal "1" → "0", typ. Digital inputs/outputs / header Number of digital I/Os Parameterization possibility of the digital I/Os If used as an input / header	When the spacer is removed 230 mm (9.05 in) deep 3 700 g 12 24 V 15 30 V -3 +5 V Yes Yes, in groups of 6 9 mA 50 µs 150 µs 16 can be parameterized - as DI - as DO - as probe input (max. 16) - as cam
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■ Depth / Note net weight Digital inputs / header number of digital inputs DC input voltage ■ rated value ● for signal "1" ● for signal "0" Electrical isolation ● note Current consumption for "1" signal level, typ. Input delay time for ● signal "0" → "1", typ. ● signal "1" → "0", typ. Digital inputs/outputs / header Number of digital I/Os Parameterization possibility of the digital I/Os If used as an input / header DC input voltage ● rated value ● for signal "1"	When the spacer is removed 230 mm (9.05 in) deep 3 700 g 12 24 V 15 30 V -3 +5 V Yes Yes, in groups of 6 9 mA 50 µs 150 µs 16 can be parameterized - as DI - as DO - as probe input (max. 16) - as cam output (max. 8)
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■ Depth / Note net weight Digital inputs / header number of digital inputs DC input voltage ■ rated value ● for signal "1" ● for signal "0" Electrical isolation ● note Current consumption for "1" signal level, typ. Input delay time for ● signal "0" → "1", typ. ● signal "1" → "0", typ. Digital inputs/outputs / header Number of digital I/Os Parameterization possibility of the digital I/Os If used as an input / header DC input voltage ● rated value ● for signal "1" ● for signal "0" Electrical isolation Current consumption for "1" signal level, typ.	When the spacer is removed 230 mm (9.05 in) deep 3 700 g 12 24 V 15 30 V -3 +5 V Yes Yes, in groups of 6 9 mA 50 µs 150 µs 16 can be parameterized - as DI - as DO - as probe input (max. 16) - as cam output (max. 8)
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Measuring input / resolution	1 μs
If used as an output / header	
Load voltage	
rated value	24 V
• minimum	20.4 V
maximum	28.8 V
Electrical isolation	No
Current carrying capacity for each output, max.	500 mA
Leakage current, max.	2 mA
Output delay for	
 signal "0" → "1", typ. 	150 µs
signal "0" → "1", max.	400 µs
 signal "1" → "0", typ. 	75 μs
signal "1" → "0", max.	150 µs
— note	Data for Vcc = 24 V; load 48 Ohm; "1" = 90 % VOut, "0" = 10 % VOut
Cam output	
• reproducibility	10 μs
resolution	1 µs
Switching frequency of the outputs for	
• resistive load, max.	4 kHz
 • inductive load, max. 	2 Hz
● lamp load, max.	11 Hz
Short-circuit protection	Yes
Additional technical data	
Back-up of non-volatile data	
of retentive data	unlimited buffer duration
• of real-time clock, min.	4 d
• note	longer buffer duration of the real-time clock using a battery inserted in the double fan/battery module
Approvals	
• USA	cULus
Canada	cULus
Australia	RCM (formerly C-Tick)
Korea	No
Russia, Belarus and Kazakhstan	EAC

