

SIMOTION Drive-based Controller Extension CX32-2; inverter control module; to increase drive count on SIMOTION D4x5-2; interfaces: 6 DI, 4 DI/DO, 4 DRIVE-CLiQ



Order number	
product brand name	SIMOTION
Product type designation	CX32-2
Version of the motion control system	Controller Extension

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

Communication	
Interfaces	
• DRIVE-CLiQ	4

General technical data	
Fan	No fan
DC supply voltage	
• rated value	24 V

• minimum	20.4 V
• maximum	28.8 V
Consumed current / typical	300 mA
• Note	with no load on inputs/outputs, no 24 V supply via DRIVE-CLiQ interface
Making current, typ.	1.6 A
Power loss [W] / typical	7 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 / during operation / maximum / Note	Wert fehlt
Air pressure	620 ... 1 060 hPa
Degree of protection	IP20
Height	380 mm
Width	25 mm
Depth	270 mm
• Note	When the spacer is removed 230 mm (9.05 in) deep
Net weight	2 600 g

Digital inputs

Number of digital inputs	6
DC input voltage	
• rated value	24 V
• for signal "1"	15 ... 30 V
• for signal "0"	-3 ... +5 V
Electrical isolation	Yes
• note	Yes, in groups of 6
Current consumption for "1" signal level, typ.	3.5 mA
Input delay time for	
• signal "0" → "1", typ.	50 µs
• signal "1" → "0", typ.	150 µs

Digital inputs/outputs

Number of digital I/Os	4
Parameterization possibility of the digital I/Os	parameterizable as DI, as DO, as probe input (max. 4)

If used as an input

DC input voltage	
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• 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.	3.5 mA
Input delay time for • 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 • 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 • signal "0" → "1", typ. • signal "0" → "1", max. • signal "1" → "0", typ. • signal "1" → "0", max. — note	150 µs 400 µs 75 µs 100 µs Data for Vcc = 24 V; load 48 Ohm; "1" = 90 % VOut, "0" = 10 % VOut
Switching frequency of the outputs for • resistive load, max. • inductive load, max. • lamp load, max.	100 Hz 2 Hz 11 Hz
Short-circuit protection	Yes

Additional technical data

Back-up of non-volatile data • of retentive data	unlimited buffer duration
Approvals • USA • Canada • Australia • Korea	cULus cULus RCM (formerly C-Tick) KCC