

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



Article number	
product brandname	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
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General technical data

Fan	No fan
DC supply voltage	
• rated value	24 V

<ul style="list-style-type: none"> • minimum 	20.4 V
<ul style="list-style-type: none"> • maximum 	28.8 V
Consumed current / typical	300 mA
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • long-term storage 	-25 ... +55 °C
<ul style="list-style-type: none"> • transport 	-40 ... +70 °C
<ul style="list-style-type: none"> • operation 	0 ... 55 °C
<ul style="list-style-type: none"> — 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	
<ul style="list-style-type: none"> • during operation 	5 ... 95 %
<ul style="list-style-type: none"> • without condensation, tested acc. to IEC 60068-2-38 	Wert fehlt
Air pressure	620 ... 1 060 hPa
Degree of protection	IP20
Height	380 mm
Width	25 mm
Depth	270 mm
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • rated value 	24 V
<ul style="list-style-type: none"> • for signal "1" 	15 ... 30 V
<ul style="list-style-type: none"> • for signal "0" 	-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.	3.5 mA
Input delay time for	
<ul style="list-style-type: none"> • signal "0" → "1", typ. 	50 µs
<ul style="list-style-type: none"> • 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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<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.	3.5 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 100 µs Data for V _{CC} = 24 V; load 48 Ohm; "1" = 90 % V _{Out} , "0" = 10 % V _{Out}
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 	unlimited buffer duration
Approvals <ul style="list-style-type: none"> • USA • Canada • Australia • Korea • Russia, Belarus and Kazakhstan 	cULus cULus RCM (formerly C-Tick) KCC EAC