

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	
<ul style="list-style-type: none"> • servo • vector • V/f • note 	<p>6</p> <p>6</p> <p>12</p> <p>Alternative control modes; drive control based on SINAMICS S120 CU320-2, firmware version V4.x</p>

Communication

Interfaces	
<ul style="list-style-type: none"> • DRIVE-CLiQ 	4

General technical data

Fan	No fan
DC supply voltage	
<ul style="list-style-type: none"> • rated value 	24 V

<ul style="list-style-type: none"> • minimum • maximum 	<p>20.4 V</p> <p>28.8 V</p>
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 • transport • operation — note 	<p>-25 ... +55 °C</p> <p>-40 ... +70 °C</p> <p>0 ... 55 °C</p> <p>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).</p>
Relative humidity	
<ul style="list-style-type: none"> • during operation • without condensation, tested acc. to IEC 60068-2-38 	<p>5 ... 95 %</p> <p>Wert fehlt</p>
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 • for signal "1" • for signal "0" 	<p>24 V</p> <p>15 ... 30 V</p> <p>-3 ... +5 V</p>
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. • signal "1" → "0", typ. 	<p>50 µs</p> <p>150 µs</p>

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 	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	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. 	5 μs
<ul style="list-style-type: none"> • signal "1" → "0", typ. 	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 	24 V
<ul style="list-style-type: none"> • minimum 	20.4 V
<ul style="list-style-type: none"> • maximum 	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. 	150 μs
<ul style="list-style-type: none"> • signal "0" → "1", max. 	400 μs
<ul style="list-style-type: none"> • signal "1" → "0", typ. 	75 μs
<ul style="list-style-type: none"> • signal "1" → "0", max. 	100 μs
— note	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. 	4 kHz
<ul style="list-style-type: none"> • inductive load, max. 	2 Hz
<ul style="list-style-type: none"> • lamp load, max. 	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 	cULus
<ul style="list-style-type: none"> • Canada 	cULus
<ul style="list-style-type: none"> • Australia 	RCM (formerly C-Tick)
<ul style="list-style-type: none"> • Korea 	KCC
<ul style="list-style-type: none"> • Russia, Belarus and Kazakhstan 	EAC