



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

product brand name	SIMOTION
product type designation	CX32-2
Version of the motion control system	Controller Extension
Integrated drive control / header	
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/V5.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, typ.	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 (12.6 °F) per 1000 m (3281 ft).
Relative humidity	
• during operation	5 ... 95 %
• without condensation, tested acc. to IEC 60068-2-38	Wert fehlt
Air pressure	620 ... 1 060 hPa
Degree of protection	IP20 / UL open type
height	380 mm
width	25 mm
• depth	270 mm
• Depth / Note	When the spacer is removed 230 mm (9.05 in) deep
net weight	2 600 g
Digital inputs / header	

number of digital inputs	6
DC input voltage	24 V
<ul style="list-style-type: none"> • rated value • for signal "1" • for signal "0" 	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.	3.5 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 / header	
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 / header	
DC input voltage	24 V
<ul style="list-style-type: none"> • rated value • for signal "1" • for signal "0" 	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 / header	
Load voltage	24 V
<ul style="list-style-type: none"> • rated value • minimum • maximum 	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

