



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
<b>Integrated drive control / header</b>	
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
<b>Communication</b>	
Interfaces	
• DRIVE-CLiQ	4
<b>General technical data</b>	
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
<b>Digital inputs / header</b>	
number of digital inputs	6
DC input voltage <ul style="list-style-type: none"> <li>• rated value</li> <li>• for signal "1"</li> <li>• for signal "0"</li> </ul>	24 V 15 ... 30 V -3 ... +5 V
Electrical isolation <ul style="list-style-type: none"> <li>• note</li> </ul>	Yes 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"> <li>• signal "0" → "1", typ.</li> <li>• signal "1" → "0", typ.</li> </ul>	50 µs 150 µs
<b>Digital inputs/outputs / header</b>	
Number of digital I/Os	4
Parameterization possibility of the digital I/Os	parameterizable as DI, as DO, as probe input (max. 4)
<b>If used as an input / header</b>	
DC input voltage <ul style="list-style-type: none"> <li>• rated value</li> <li>• for signal "1"</li> <li>• for signal "0"</li> </ul>	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"> <li>• signal "0" → "1", typ.</li> <li>• signal "1" → "0", typ.</li> </ul>	5 µs 50 µs
Measuring input / reproducibility	5 µs
Measuring input / resolution	1 µs
<b>If used as an output / header</b>	
Load voltage <ul style="list-style-type: none"> <li>• rated value</li> <li>• minimum</li> <li>• maximum</li> </ul>	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"> <li>• signal "0" → "1", typ.</li> <li>• signal "0" → "1", max.</li> <li>• signal "1" → "0", typ.</li> <li>• signal "1" → "0", max.</li> <li>— note</li> </ul>	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 <ul style="list-style-type: none"> <li>• resistive load, max.</li> <li>• inductive load, max.</li> <li>• lamp load, max.</li> </ul>	4 kHz 2 Hz 11 Hz
Short-circuit protection	Yes
<b>Additional technical data</b>	
Back-up of non-volatile data <ul style="list-style-type: none"> <li>• of retentive data</li> </ul>	unlimited buffer duration
Approvals <ul style="list-style-type: none"> <li>• USA</li> <li>• Canada</li> <li>• Australia</li> <li>• Korea</li> <li>• Russia, Belarus and Kazakhstan</li> </ul>	cULus cULus RCM (formerly C-Tick) KCC EAC

