SIEMENS

Data sheet 6SL3040-0NA00-0AA0

SPARE PART SIMOTION DRIVE-BASED CONTROLLER EXTENSION CX32; INVERTER CONTROL MODULE; TO INCREASE DRIVE COUNT ON SIMOTION D4X5; INTERFACES: 4 DI, 4 DI/DO, 4 DRIVE-CLIQ

product brand name	SIMOTION
product type designation	CX32
Version of the motion control system	Controller Extension
Integrated drive control / header	
Maximum number of axes for integrated drive control	
● servo	6
● vector	4
● V/f	8
● note	Alternative control modes; drive control based on SINAMICS S120 CU320, firmware version V2.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	800 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.	20 W
Ambient temperature, during	
● storage	-40 ... +70 °C
● transport	-40 ... +70 °C
● operation	0 ... 55 °C
— note	Maximum 5000 m (16405 ft) above sea level. Above an altitude of 2000 m (6562 ft), the max. ambient temperature decreases by 7 °C (12.6 °F) every 1000 m (3281 ft).
Relative humidity	
● during operation	5 ... 95 %
● without condensation, tested acc. to IEC 60068-2-38	Wert fehlt
Air pressure	700 ... 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	2 200 g
Digital inputs / header	
number of digital inputs	4
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 4
Current consumption for "1" signal level, typ.	10 mA
Input delay time for	
● signal "0" → "1", typ.	50 µs
● signal "1" → "0", typ.	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. 3)
If used as an input / header	
DC input voltage	
● rated value	24 V
● for signal "1"	15 ... 30 V
● for signal "0"	-3 ... +5 V
Electrical isolation	No
Current consumption for "1" signal level, typ.	10 mA
Input delay time for DI 9 to DI 11 for	
● signal "0" → "1", typ.	5 µs
● signal "1" → "0", typ.	50 µs
— note	can also be used as probe inputs
Input delay time for DI 8 for	
● signal "0" → "1", typ.	50 µs
● signal "1" → "0", typ.	100 µs
Measuring input / reproducibility	5 µs
If used as an output / header	
Load voltage	
● rated value	24 V
● minimum	20.4 V
● maximum	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.	150 µs
● signal "0" → "1", max.	400 µs
● signal "1" → "0", typ.	75 µs
● signal "1" → "0", max.	100 µs
— note	Data for Vcc = 24 V; load 48 Ohm; "1" = 90 % VOut, "0" = 10 % VOut
Switching frequency of the outputs for	
● resistive load, max.	100 Hz
● inductive load, max.	2 Hz
● lamp load, max.	11 Hz
Short-circuit protection	Yes
Additional technical data	
Back-up of non-volatile data	
● of retentive data	unlimited buffer duration
Approvals	
● USA	cULus
● Canada	cULus
● Australia	RCM (formerly C-Tick)