



Product data sheet

6SL3040-0NA00-0AA0



Fig. similar

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	
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
Communications	
Interfaces	4
General technical data	
Fan	No fan
Supply voltage	

• rated value	24 V
Making current, typ.	1.6 A
Power loss, typ.	20 W
Ambient temperature	
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• during operating	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 (44.6 °F) every 1000 m (3281 ft).
Relative humidity / without condensation	
• during operating phase	5 ... 95 %
Air pressure	700 ... 1060 hPa
Protection class IP	IP20
Dimensions	380 mm
Dimensions	25 mm
Depth	270 mm
• remark	when the spacer is removed 230 mm deep
Weight, approx.	2200 g
Digital inputs	
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	
Number of digital inputs/outputs	4
Parameterization possibility of the digital I/Os	parameterizable as DI, as DO, as probe input (max. 3)

If used as an input	
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	
• signal "1" → "0", typ.	5 µs
•	50 µs
•	can also be used as probe inputs
• signal "0" → "1", typ.	50 µs
•	100 µs
Measuring input	
• reproducibility	5 µs
If used as an output	
Load voltage	
• rated value	24 V
• minimum	20.4 ... 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
If used as an current input	
Backup of non-volatile data	
• of retentive data	unlimited buffer duration
Approvals	
• USA	cULus
• Canada	cULus

Further information[Information and download center for Industry Automation and Drives](#)[Technical documentation \(Motion Control\)](#)[Industry Mall \(online ordering system\)](#)[Service & Support \(FAQs, manuals, operating instructions, certificates, characteristics, ...\)](#)**last change:**

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