



Article No. : 6SL3040-1LA01-0AA0

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

Inputs / outputs		Electrical data	
Digital inputs		Electronics power supply	DC 24 V (20.4 ... 28.8 V)
Number	11	Max. power consumption <sup>5)</sup>	0.8 A
Voltage	-3 ... 30 V	Power loss, max.	20 W
Low level	-3 ... 5 V	Protection, max.	20 A
High level	15 ... 30 V	Communication	
Power consumption at 24 V DC, typ.	3.5 mA	Communication	PROFINET, EtherNet/IP
Delay time L→H, typ. <sup>1)</sup>	50 µs	On-board encoder interface	
Delay time H→L, typ. <sup>1)</sup>	150 µs	Encoder evaluation	optional incremental encoder TTL/HTL or encoder SSI without incremental signals
Digital I/O		max. load current at 24 V encoder supply	0.35 A
Number of bidirectional, not potential-free inputs <sup>3)</sup>	8	max. load current at 5 V encoder supply	0.35 A
As input		Encoder frequency, max.	300 kHz
Voltage	-3 ... 30 V	SSI baudrate	100 ... 1,000 kBaud
Low level	-3 ... 5 V	SSI absolute position resolution	30 bit
High level	15 ... 30 V	Line length, max.	
Power consumption at 24 V DC, typ.	3.5 mA	TTL encoder <sup>6)</sup>	100 m (328.08 ft)
Delay time L→H <sup>1)</sup>	5 µs	HTL encoder unipolar signal	100 m (328.04 ft)
Delay time H→L <sup>1)</sup>	50 µs	HTL encoder bipolar signal	300 m (984.25 ft)
As output		SSI encoder	100 m (328.08 ft)
Continuous short-circuit proof	Yes	Environmental conditions	
Voltage	DC 24 V	Installation altitude	2,000 m (6,561.68 ft)
Load current per digital output, max.	500 mA	Ambient temperature during	
Delay time L→H, typ./ max.	150 µs / 400 µs	Operation	0 ... 55 °C (32 ... 131 °F)
Delay time H→L, typ./ max.	75 µs / 100 µs	Storage	-25 ... 55 °C (-13 ... 131 °F)
Analog inputs		Transport	-40 ... 70 °C (-40 ... 158 °F)
Number <sup>4)</sup>	1	Relative humidity during	
As voltage input		Transport, max.	95 % at 40 °C (104 °F)
Voltage	-10 ... 10 V		
Resolution	12 bit + sign (with respect to the maximum range that can be resolved - 11 ... +11 V)		
R <sub>i</sub>	>100 kΩ		
As current input			
Voltage	-20 ... 20 mA		
Resolution	11 bit + sign (with respect to -22 ... 22 mA); Maximum range that can be resolved -44 ... +44 mA)		
R <sub>i</sub>	>250 Ω		



Figure similar

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Connections	
PE connection	1 (M5 screw)
Supply voltage, max.	2.5 mm² (AWG 14)
Digital inputs, max.	1.5 mm² (AWG 16)
Digital inputs/outputs, max.	1.5 mm² (AWG 16)
DRIVE-CLiQ	1
PROFINET	2
PROFIBUS	- -
RS232	- -
Ethernet	1
Temperature sensor	1
24 V	1

Measuring sockets	3
Number of slots	
Flash card	1

Mechanical data	
Net weight	0.95 kg (2.09 lb)
Dimensions	
Width	73.0 mm (2.87 in)
Height	191.0 mm (7.52 in)
Depth	75.0 mm (2.95 in)

Standards	
Compliance with standards	CE, KC, cULus, EAC, C-Tick (RCM)

<sup>1)</sup>The specified delay times refer to the hardware. The actual reaction time depends on the time slot in which the digital input or output is processed.

<sup>3)</sup> can be parameterized - as DI - as DO

<sup>4)</sup> The analog input can be switched between current and voltage input.

<sup>5)</sup> without taking into account digital outputs. Option slot extension, DRIVE-CLiQ supply and Power Module PM340

<sup>6)</sup> Signal cables twisted in pairs and shielded