



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

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

Item no. :  
Consignment no. :  
Project :

Inputs / outputs	
Digital inputs	
Number	11
Voltage	-3 ... 30 V
Low level	-3 ... 5 V
High level	15 ... 30 V
Power consumption at 24 V DC, typ.	3.5 mA
Delay time L→H, typ. <sup>1)</sup>	50 µs
Delay time H→L, typ. <sup>1)</sup>	150 µs
Digital I/O	
Number of bidirectional, not potential-free inputs <sup>3)</sup>	8
As input	
Voltage	-3 ... 30 V
Low level	-3 ... 5 V
High level	15 ... 30 V
Power consumption at 24 V DC, typ.	3.5 mA
Delay time L→H <sup>1)</sup>	5 µs
Delay time H→L <sup>1)</sup>	50 µs
As output	
Continuous short-circuit proof	Yes
Voltage	DC 24 V
Load current per digital output, max.	500 mA
Delay time L→H, typ./ max.	150 µs / 400 µs
Delay time H→L, typ./ max.	75 µs / 100 µs
Analog inputs	
Number <sup>4)</sup>	1
As voltage input	
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

Electrical data	
Electronics power supply	DC 24 V (20.4 ... 28.8 V)
Max. power consumption <sup>5)</sup>	0.8 A
Power loss, max.	20 W
Protection, max.	20 A
Communication	
Communication	PROFINET, EtherNet/IP
On-board encoder interface	
Encoder evaluation	optional incremental encoder TTL/HTL or encoder SSI without incremental signals
max. load current at 24 V encoder supply	0.35 A
max. load current at 5 V encoder supply	0.35 A
Encoder frequency, max.	300 kHz
SSI baudrate	100 ... 1,000 kBaud
SSI absolute position resolution	30 bit
Line length, max.	
TTL encoder <sup>6)</sup>	100 m (328.08 ft)
HTL encoder unipolar signal	100 m (328.04 ft)
HTL encoder bipolar signal	300 m (984.25 ft)
SSI encoder	100 m (328.08 ft)
Environmental conditions	
Installation altitude	2,000 m (6,561.68 ft)
Ambient temperature during	
Operation	0 ... 55 °C (32 ... 131 °F)
Storage	-25 ... 55 °C (-13 ... 131 °F)
Transport	-40 ... 70 °C (-40 ... 158 °F)
Relative humidity during	
Transport, max.	95 % at 40 °C (104 °F)



Figure similar

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

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