SIEMENS

Data sheet

6ES7147-5JD00-0BA0

SIMATIC ET 200AL, CM 4x IO-Link, 4x M12, Degree of protection IP67



General information	
Product type designation	CM 4x IO-Link
HW functional status	FS05
Firmware version	V1.1.x
Product function	
● I&M data	Yes; I&M0 to I&M3
Engineering with	
 STEP 7 TIA Portal configurable/integrated as of version 	STEP 7 V13 SP1 or higher
 STEP 7 configurable/integrated as of version 	From V5.5 SP4 Hotfix 3
 PROFIBUS as of GSD version/GSD revision 	GSD as of Revision 5
 PROFINET as of GSD version/GSD revision 	GSDML V2.3.1

Supply voltage

Load voltage 1L+

• Rated value (DC)	24 V
• permissible range, lower limit (DC)	20.4 V
• permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes

Load voltage 2L+	
• Rated value (DC)	24 V
• permissible range, lower limit (DC)	20.4 V
• permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes; against destruction; load increasing
- Neverse polarity protection	1 65, against destruction, load moreasting
Input current	
Current consumption (rated value)	40 mA; without load
from load voltage 1L+ (unswitched voltage)	4 A; Maximum value
from load voltage 2L+, max.	4 A; Maximum value
Encoder supply	
Number of outputs	4
24 V encoder supply	
Short-circuit protection	Yes; per module, electronic
Output current, max.	1.4 A; Total current of all ports
Power loss	2.6 W
Power loss, typ.	2.0 VV
IO-Link	
Number of ports	4
 of which simultaneously controllable 	4
IO-Link protocol 1.0	Yes
IO-Link protocol 1.1	Yes
Transmission rate	4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3)
Size of process data, input per port	32 byte
Size of process data, input per module	32 byte
Size of process data, output per port	32 byte
Size of process data, output per module	32 byte
Memory size for device parameter	2 kbyte; for each port
Master backup	Possible with function block IO_LINK_MASTER
Configuration without S7-PCT	Possible; autostart/manual function
Cable length unshielded, max.	20 m
Operating modes	
• IO-Link	Yes
• DI	Yes
• DQ	Yes; max. 100 mA
Connection of IO-Link devices	
Port type A	Yes; via 3-core cable
Port type B	Yes; Additional device supply: 1.6 A total current of all ports
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes; Parameterizable
Diagnostic messages	
g	

Yes
Yes
Yes
Yes; Green LED
Yes; Green/red LED
Yes; Green LED
Yes
No
Yes
No
707 V DC (type test)
101 V DO (typo toot)
IP65/67
Yes; From FS01
g of standard modules
PL d
Cat. 3
Gat. 0
SILCL 2
SILCL 2
SILCL 2
-30 °C
-30 °C
-30 °C
-30 °C 55 °C
-30 °C 55 °C M12, 5-pole
-30 °C 55 °C M12, 5-pole
-30 °C 55 °C M12, 5-pole M8, 4-pole
-30 °C 55 °C M12, 5-pole M8, 4-pole
-30 °C 55 °C M12, 5-pole M8, 4-pole M8, 4-pin, shielded

Weights
Weight, approx.

145 g

last modified: 09/27/2019