SIEMENS

Data sheet

6ES7141-6BH00-0AB0



SIMATIC DP, ET 200ECO PN, 16 DI 24 V DC; $8 \times M12$, duplicate assignment; Degree of protection IP67

Figure simila

General information	
Vendor identification (VendorID)	002AH
Device identifier (DeviceID)	0306H
Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
power supply according to NEC Class 2 required	Yes
Input current	
Current consumption, typ.	100 mA
from supply voltage 1L+, max.	4 A
Encoder supply	
Number of outputs	8
24 V encoder supply	
 Short-circuit protection 	Yes; Electronic
 Output current, max. 	100 mA; per output
Power loss	
Power loss, typ.	6.5 W
Digital inputs	
Number of digital inputs	16
• in groups of	2
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 60 °C, max.	16
Input voltage	
Rated value (DC)	24 V
● for signal "0"	-3 to +5V
• for signal "1"	+11 to +30V
Input current	
• for signal "1", typ.	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	typically 3 ms
— at "1" to "0", max.	typically 3 ms
Cable length	20 ==
unshielded, max.	30 m
Encoder	

Connectable encoders	
• 2-wire sensor Yes	
— permissible quiescent current (2-wire sensor), 1.5 mA	
max.	
Interfaces	
Transmission procedure 100BASE-TX	
Number of PROFINET interfaces 1	
1. Interface	
Interface types	
• M12 port Yes	
• integrated switch Yes	
Interface types	
M12 port	
Autonegotiation Yes	
Autocrossing Yes	
• Transmission rate, max. 100 Mbit/s	
Protocols	
Supports protocol for PROFINET IO Yes	
PROFINET CBA No	
PROFINET CBA NO NO	
PROFINET IO Device	
Services	
3 1 3	
— Prioritized startup Yes	
Redundancy mode	
Media redundancy	
— MRP Yes	
Open IE communication	
• TCP/IP No	
• SNMP Yes	
• DCP Yes	
• LLDP Yes	
• ping Yes	
• ARP Yes	
Interrupts/diagnostics/status information	
Diagnostics function Yes	
Alarms	
Diagnostic alarm Yes	
Diagnoses	
Diagnostic information readable Yes	
Monitoring the supply voltage Yes; green "ON" LED	
Wire-break in signal transmitter cable Yes	
Short-circuit encoder supply Yes; Per channel group	
Group error Yes; Red/yellow "SF/MT" LED	
Potential separation	
between the load voltages Yes	
between load voltage and all other switching components No	
between Ethernet and electronics Yes	
Potential separation channels	
between the channels No	
Isolation	
tested with	
• 24 V DC circuits 707 V DC (type test)	
Test voltage for interface, rms value [Vrms] 1 500 V; According to IEEE 802.3	
Degree and class of protection	
Degree and class of protection IP degree of protection IP65/67	
Degree and class of protection IP degree of protection IP65/67 connection method / header	
Degree and class of protection IP degree of protection IP65/67	

Width	60 mm
Height	175 mm
Depth	49 mm
Weights	
Weight, approx.	910 g

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