



SIMATIC DP, ET 200ECO PN, 16 DI 24V DC; 8 X M12, DOUBLE-ASSIGNMENT; DEGREE OF PROTECTION IP67

Figure similar

General information

Vendor identification (VendorID)	002AH
Device identifier (DeviceID)	0306H

Supply voltage

Rated value (DC)	
<ul style="list-style-type: none"> • 24 V DC 	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes

Input current

Current consumption, typ.	100 mA
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Encoder supply

Number of outputs	8
Output current	
<ul style="list-style-type: none"> • nominal 	100 mA; per output
24 V encoder supply	
<ul style="list-style-type: none"> • short-circuit protection 	Yes

Power losses

Power loss, typ.	6.5 W
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Digital inputs

Number of digital inputs	16
<ul style="list-style-type: none"> • 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	
• Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "0"	-3 to +5V
• for signal "1"	+11 to +30V
Input current	
• for signal "0", max. (permissible quiescent current)	1.5 mA
• 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	
• Unshielded, max.	30 m
Interfaces	
Transmission procedure	100BASE-TX
Transmission rate, max.	100 Mbit/s
PROFINET IO	
• Number of PROFINET interfaces	1
• Autocrossing	Yes
• Automatic detection of transmission speed	Yes
• Integrated switch	Yes
PROFINET IO Device	
— IRT with the option "high flexibility" supported	Yes
— Prioritized startup	Yes
Protocols	
PROFINET IO	Yes
PROFINET CBA	No
Supports protocol for PROFI-safe	No
Protocols (Ethernet)	
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
• ping	Yes
• ARP	Yes

Interrupts/diagnostics/status information	
Status indicator	Yes; Green LED
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Diagnostic functions	Yes
• 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
Galvanic isolation	
between the load voltages	Yes
between load voltage and all other switching components	No
between Ethernet and electronics	Yes
Galvanic isolation digital inputs	
• between the channels	No
Permissible potential difference	
between different circuits	75V DC/60V AC
Isolation	
tested with	
• 24 V DC circuits	500 V
• Interface	1 500 V; According to IEEE 802.3
Degree and class of protection	
Degree of protection to EN 60529	
• IP65	Yes
• IP66	Yes
• IP67	Yes
Connection method	
M12	Yes
Dimensions	
Width	60 mm
Height	175 mm
Depth	49 mm
Weights	
Weight (without packaging)	910 g
last modified:	12.03.2015