SIMATIC DP, ET 200ECO PN, 8 DO 24 V DC/1.3 A; 4xM12, Duplicate assignment, Degree of protection IP67



Figure similar

General information		
Vendor identification (VendorID)	002AH	
Device identifier (DeviceID)	0306H	
Supply voltage		
Rated value (DC)	24 V	
Reverse polarity protection	Yes	
Load voltage 2L+		
Rated value (DC)	24 V	
Reverse polarity protection	Yes	
Input current		
Current consumption, typ.	100 mA	
from supply voltage 1L+, max.	4 A	
from load voltage 2L+, max.	4 A	
Power loss		
Power loss, typ.	5.5 W	
Digital outputs		

in groups of Short-circuit protection Yes Response threshold, typ. I.8.A Limitation of inductive shutdown voltage to Typ. (L1+, L2+) -47 V Controlling a digital input Yes Switching capacity of the outputs on lamp load, max. Output current if or signal "1" rated value if or signal "1" rated value if or signal of two outputs if or uprating if or uprating if or uprating if or redundant control of a load Switching fequency with resistive load, max. if on lamp load, max. if on lamp load, max. if on lamp load, max. if the control of a load if or redundant control of a load if or redundant control of a load if or redundant control of a load if or uprating if up the sequency if up the	Number of digital outputs	8
Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Personal Switching capacity of the outputs on lamp load, max. S W Output current for signal "1" rated value of signal "0" residual current, max. 1.5 mA Parallel switching of two outputs of or uprating for uprating for redundant control of a load Switching frequency with resistive load, max. on lamp load, max. 100 Hz on lamp load, max. the on lamp load switching frequency with resistive load, max. on lamp load, max. 1 Hz Total current of the outputs (per group) all mounting positions up to 55 "C, max. up to 60 "C, max. up to 60 "C, max. 3.9 A up to 60 "C, max. 30 m Interfaces Transmission procedure Transmission procedure Transmission procedure 1 Linterface 1 Linterface types integrated switch Yes M12 port Autoreopstiation Autor	• in groups of	4
Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs on lamp load, max. 5 W Output current for signal "1" rated value for signal "1" rated value for signal "0" residual current, max. Farallel switching of two outputs of or uprating for redundant control of a load Switching fequency with resistive load, max. on lamp load, max. on lamp load, max. that Total current of the outputs (per group) all mounting positions — up to 55 "C, max. — up to 60" C, max. 2.6 A Cable length unshelded, max. 100BASE-TX Number of PROFINET interfaces Interface Interface types interface types M12 port Autocrossing Yes Ves Supports protocol for PROFINET IO Yes PROFINET CBA No PROFIsafe No No PROFIsafe	Short-circuit protection	Yes
Controlling a digital input Switching capacity of the outputs on lamp load, max. on lamp load, max. for signal "1" rated value of ror signal "0" residual current, max. 1.5 mA Parallel switching of two outputs of ror redundant control of a load Switching frequency with resistive load, max. or lamp load, max. 100 Hz with inductive load, max. on lamp load, max. 1 Hz Total current of the outputs (per group) all mounting positions — up to 55 °C, max. — up to 60 °C, max. 2.6 A Cable length ounshielded, max. 1nterfaces Transmission procedure Number of PROFINET interfaces 1 Interface types M12 port Autonegotiation Autocrossing Yes Ves Ves Ves Ves Ves Transmission rate, max. 100 Mbit/s PROFINET CBA No No PROFINET CBA No No PROFINET CBA No	 Response threshold, typ. 	1.8 A
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Output current • for signal "1" rated value • for signal "0" residual current, max. Parallel switching of two outputs • for oredundant control of a load • for redundant control of a load Switching frequency • with resistive load, max. • with inductive load, max. • on lamp load, max. • on lamp load, max. 1 Hz Total current of the outputs (per group) all mounting positions — up to 55 °C, max. — up to 60 °C, max. Cable length • unshielded, max. Interfaces Transmission procedure Number of PROFINET interfaces 1 1. Interface Interface types M12 port • Autocrossing • Autocrossing • Yes • Autocrossing • Transmission rate, max. 100 Mbit/s Protocols Supports protocol for PROFINET IO Yes PROFISafe No	Switching capacity of the outputs	
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• for signal "0" residual current, max. Parallel switching of two outputs • for uprating • for redundant control of a load Yes Switching frequency • with resistive load, max. • with inductive load, max. • on lamp load, max. • on lamp load, max. • un to 55 °C, max. — up to 55 °C, max. — up to 60 °C, max. Cable length • unshielded, max. 1 tetrfaces Transmission procedure Interface types • integrated switch • M12 port • Autocrossing • Autocrossing • Transmission rate, max. Protocols PROFINET CBA PROFISafe No PROFISafe	Output current	
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• for redundant control of a load Switching frequency • with resistive load, max. • with inductive load, max. • on lamp load, max. • on lamp load, max. — up to 55 °C, max. — up to 60 °C, max. — up to 60 °C, max. — up to 60 °C, max. — up to 80 °C, max.	Parallel switching of two outputs	
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all mounting positions	• on lamp load, max.	1 Hz
— up to 55 °C, max. — up to 60 °C, max. Cable length ● unshielded, max. 30 m Interfaces Transmission procedure 100BASE-TX Number of PROFINET interfaces 1 1. Interface linterface types ● integrated switch ● M12 port ● Autonegotiation ● Autocrossing ● Transmission rate, max. Protocols Supports protocol for PROFINET IO PROFINET CBA PROFISafe No	Total current of the outputs (per group)	
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Protocols Supports protocol for PROFINET IO PROFINET CBA No PROFIsafe No	Autocrossing	Yes
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Supports protocol for PROFINET IO PROFINET CBA PROFIsafe No	Protocols	
PROFIsafe No		Yes
	PROFINET CBA	No
PROFINET IO Device	PROFIsafe	No
	PROFINET IO Device	

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Services	V
— IRT with the option "high flexibility"	Yes
— 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
Diagnostic messages	
 Diagnostic information readable 	Yes
 Monitoring the supply voltage 	Yes; green "ON" LED
 Wire-break in actuator cable 	Yes
Short-circuit	Yes
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	IDOF 107
IP degree of protection	IP65/67
Standards, approvals, certificates	
Suitable for safety-related tripping of standard modules	Yes
Highest safety class achievable for safety-related tripping	ng of standard modules

• Performance level according to ISO 13849-1

• Category according to ISO 13849-1

• SILCL according to IEC 62061

PL d

Cat. 3

SILCL 2

Connection method Design of electrical connection	4/5-pin M12 circular connectors
Dimensions	
Width	30 mm
Height	200 mm
Depth	49 mm
Weights	
Weight, approx.	550 g

06/09/2020