

SPARE PART SIMATIC DP, ELECTRONIC BLOCK FOR ET 200L, 32 DO, 24V DC/0.5A



Figure similar

General information	
Vendor identification (VendorID)	0011h
Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Load voltage L+	
• Rated value (DC)	24 V; 1L+, 2L+, 3L+
Input current	
from supply voltage L+, max.	70 mA; L4+ / L5+
from load voltage L+ (without load), max.	100 mA; Per load group (L1+ or L2+ / L3+)
Power loss	
Power loss, typ.	7 W
Hardware configuration	
Rack	

- required terminal block

TB 32L

Digital outputs

Number of digital outputs	32
Short-circuit protection	Yes
<ul style="list-style-type: none"> • Response threshold, typ. 	0.7 A
Limitation of inductive shutdown voltage to	Typ. (L1+ or L2+ / L3+) -55 V
Controlling a digital input	Yes
Switching capacity of the outputs	
<ul style="list-style-type: none"> • on lamp load, max. 	5 W
Load resistance range	
<ul style="list-style-type: none"> • lower limit 	41 Ω
<ul style="list-style-type: none"> • upper limit 	28 000 Ω
Output voltage	
<ul style="list-style-type: none"> • Rated value (DC) 	24 V
<ul style="list-style-type: none"> • for signal "1", min. 	U _a - 3 V
Output current	
<ul style="list-style-type: none"> • for signal "1" permissible range, min. 	1 mA
<ul style="list-style-type: none"> • for signal "1" permissible range, max. 	0.5 A
<ul style="list-style-type: none"> • for signal "0" residual current, max. 	1 mA
Output delay with resistive load	
<ul style="list-style-type: none"> • "0" to "1", max. 	50 μ s
<ul style="list-style-type: none"> • "1" to "0", max. 	200 μ s
Parallel switching of two outputs	
<ul style="list-style-type: none"> • for uprating 	No
<ul style="list-style-type: none"> • for redundant control of a load 	Yes; only outputs of the same group
Switching frequency	
<ul style="list-style-type: none"> • with resistive load, max. 	100 Hz
<ul style="list-style-type: none"> • with inductive load, max. 	0.5 Hz
<ul style="list-style-type: none"> • on lamp load, max. 	8 Hz
Total current of the outputs (per group)	
horizontal installation	
<ul style="list-style-type: none"> — up to 30 °C, max. 	4 000 mA
<ul style="list-style-type: none"> — up to 40 °C, max. 	3 000 mA
<ul style="list-style-type: none"> — up to 60 °C, max. 	2 000 mA
all other mounting positions	
<ul style="list-style-type: none"> — up to 40 °C, max. 	2 A
Cable length	
<ul style="list-style-type: none"> • shielded, max. 	1 000 m
<ul style="list-style-type: none"> • unshielded, max. 	600 m

Interfaces

PROFIBUS DP

• Transmission rate, max.	1.5 Mbit/s
• SYNC capability	Yes
• Direct data exchange (slave-to-slave communication)	Yes; Transmitter (for digital outputs and hybrid modules ET 200L: not for L-SC or IM-SC)

Protocols

Bus protocol/transmission protocol	PROFIBUS DP
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Interrupts/diagnostics/status information

Alarms	No
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Diagnostic functions	Yes
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Diagnostics indication LED

• Bus fault BF (red)	Yes
• Status indicator digital output (green)	Yes
• Monitoring 24 V voltage supply ON (green)	Yes

Potential separation

between PROFIBUS DP and all other circuit components	Yes
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Potential separation digital outputs

• between the channels	No
• between the channels and PROFIBUS DP	Yes

Isolation

Isolation tested with	500 V DC
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Degree and class of protection

Degree of protection acc. to EN 60529	IP20
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Ambient conditions

Ambient temperature during operation

• horizontal installation, min.	0 °C
• horizontal installation, max.	60 °C; 40°C for other mountings

Air pressure acc. to IEC 60068-2-13

• permissible range, lower limit	795 hPa
• permissible range, upper limit	1 080 hPa

Relative humidity

• Operation, min.	5 %
• Operation, max.	95 %; RH class 2 in accordance with IEC 1131-2

Vibrations

• Operation, tested according to IEC 60068-2-6	Yes; IEC 68, Part 2-6; 10 to 57 Hz; (constant amplitude 0.075 mm); 57 to 150 Hz; (constant acceleration 1 g)
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Shock test

• tested according to IEC 60068-2-27	Yes; IEC 68, Part 2-27; half-sine, 15 g, 11 ms
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Connection method

Design of electrical connection for the inputs and outputs	Screw-type and spring-loaded terminals, permanent wiring; standard: 2-wire connection, optional: 3 and 4-wire connection
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Dimensions

Width	145 mm
Height	60 mm
Depth	60.5 mm

Weights

Weight, approx.	150 g
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last modified: 03/07/2017