

*** SPARE PART*** SIMATIC DP, ELECTRONIC BLOCK FOR ET
200L, 16 DI, 120V AC WITH 1 POINT COMMO

General information	
Vendor identification (VendorID)	002AH
Usable terminal block	TB 16L AC
Supply voltage	
Rated value (AC)	120 V
Line frequency	
• permissible range, lower limit	47 Hz
• permissible range, upper limit	63 Hz
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Input current	
from supply voltage L1, max.	90 mA
Power loss	
Power loss, typ.	5.4 W
Digital inputs	
Number of digital inputs	16
Input characteristic curve in accordance with IEC 61131, type 2	Yes
Number of simultaneously controllable inputs	
• Number of simultaneously controllable inputs	16
Input voltage	
• Rated value (AC)	120 V
• for signal "0"	0 to 20V
• for signal "1"	74 to 132V
Input current	
• for signal "0", max. (permissible quiescent current)	4 mA
• for signal "1", typ.	9 mA; 9 to 27 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", min.	2 ms
— at "0" to "1", max.	14 ms
— at "1" to "0", min.	6 ms
— at "1" to "0", max.	25 ms

Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
Interfaces	
PROFIBUS DP	
• Transmission rate, max.	6 Mbit/s; 9,6 / 19,2 / 93,75 / 187,5 / 500 kbit/s; 1,5 / 3 / 6 Mbit/s
• FREEZE 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
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	Yes
Diagnostics indication LED	
• Bus fault BF (red)	Yes
• Status indicator digital input (green)	Yes
• Monitoring 24 V voltage supply ON (green)	Yes
Potential separation	
between PROFIBUS DP and all other circuit components	Yes
Potential separation digital inputs	
• between the channels	Yes
• between the channels and PROFIBUS DP	Yes
Isolation	
Isolation tested with	1500 V AC
Degree and class of protection	
IP degree of protection	IP20
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)
Shock testing	
• tested according to IEC 60068-2-27	Yes; IEC 68, Part 2-27; half-sine, 15 g, 11 ms
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
Dimensions	
Width	191 mm
Height	61 mm
Depth	85.5 mm
Weights	
Weight, approx.	341 g
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