

*** SPARE PART*** SIMATIC DP, ELECTRONIC BLOCK FOR ET
200L-SC, 16 DI/16 DO, 24V DC/0.5 A

General information	
Usable terminal block	TB 32L
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
Input current	
from supply voltage L+, max.	180 mA
from load voltage L+ (without load), max.	50 mA; Per load group (L1+ or L2+ / L3+)
Power loss	
Power loss, typ.	5 W
Digital inputs	
Number of digital inputs	16; Expansion: digital and analog with SIMATIC SC
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
• Number of simultaneously controllable inputs	16
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	-30 to +5V
• for signal "1"	13 to 30V
Input current	
• for signal "1", typ.	5 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", min.	2 ms
— at "0" to "1", max.	4.5 ms
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Digital outputs	

Number of digital outputs	16; Expansion: digital and analog with SIMATIC SC
Short-circuit protection	Yes; Electronic
Output voltage	
• Rated value (DC)	24 V
• for signal "1", min.	U _a - 3 V
Output current	
• for signal "1" permissible range for 0 to 60 °C, max.	0.5 A
• for signal "0" residual current, max.	1 mA
Switching frequency	
• with resistive load, max.	100 Hz
• with inductive load, max.	0.5 Hz
• on lamp load, max.	8 Hz
Total current of the outputs (per module)	
horizontal installation	
— up to 30 °C, max.	4 A
— up to 40 °C, max.	3 A
— up to 60 °C, max.	2 A
all other mounting positions	
— up to 40 °C, max.	2 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interfaces	
PROFIBUS DP	
• Transmission rate, max.	1.5 Mbit/s
• SYNC capability	Yes
• FREEZE capability	Yes
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	Yes
Diagnostics indication LED	
• Bus fault BF (red)	Yes
• Status indicator digital input (green)	Yes
• Status indicator digital output (green)	Yes
• Monitoring 24 V voltage supply ON (green)	Yes
Potential separation	
Potential separation digital inputs	
• between the channels	No
• between the channels and PROFIBUS DP	Yes
Potential separation digital outputs	

- between the channels

No

Isolation

Isolation tested with

500 V DC

Dimensions

Width

145 mm

Height

60 mm

Depth

60.5 mm

Weights

Weight, approx.

130 g

last modified:

08/12/2019