

*** SPARE PART*** SIMATIC DP, ELECTRONIC BLOCK FOR ET 200L, DIGITAL, 16 DI, 24V DC, EXPANDABLE WITH MAX. 16 CHANNELS W. TERM. BLOCK TB 16SC OF SMART CONNECT

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.	4 W
Hardware configuration	
Rack	
• required terminal block	TB 16L
Digital inputs	
Number of digital inputs	16; Expansion: digital and analog with SIMATIC SC
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
Encoder	
Connectable encoders	
• 2-wire sensor	Yes

— permissible quiescent current (2-wire sensor), max.

1.5 mA

Interfaces

PROFIBUS DP

- Transmission rate, max. 1.5 Mbit/s
- SYNC capability Yes
- FREEZE capability Yes

Interrupts/diagnostics/status information

Alarms

- Alarms No

Diagnostic messages

- Diagnostic functions 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

Potential separation digital inputs

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

Isolation

Isolation tested with 500 V DC

last modified: 13.08.2015