

\*\*\* SPARE PART\*\*\* SIMATIC DP, BASIC MODULE BM141 ET 200X, 8DI 24V DC, 5-PIN M12, DOUBLE-ASSIGNMENT, IP66/67 INT.PROFIBUS DP IF 12 MBIT/S, INTEGR. PS INTERFACE



### Supply voltage

#### Load voltage 1L+

- |                               |                 |
|-------------------------------|-----------------|
| • Rated value (DC)            | 24 V            |
| • short-circuit protection    | Yes; Electronic |
| • Reverse polarity protection | Yes             |

#### Load voltage 2L+

- |                               |      |
|-------------------------------|------|
| • Rated value (DC)            | 24 V |
| • Reverse polarity protection | No   |

### Input current

- |                               |        |
|-------------------------------|--------|
| from supply voltage 1L+, max. | 180 mA |
|-------------------------------|--------|

### Encoder supply

- |                          |                 |
|--------------------------|-----------------|
| Number of outputs        | 4               |
| Short-circuit protection | Yes; Electronic |

#### Output current

- |                     |       |
|---------------------|-------|
| • up to 40 °C, max. | 0.9 A |
| • up to 55 °C, max. | 0.7 A |

### Power loss

Power loss, typ.	3.5 W
<b>Hardware configuration</b>	
<b>Expansion modules</b>	
• Number of expansion modules, max.	7
— of which motor starters/frequency converters, max.	6
— of which pneumatic interfaces, max.	6
<b>Digital inputs</b>	
Number of digital inputs	8
Input characteristic curve in accordance with IEC 61131, type 1	Yes
<b>Number of simultaneously controllable inputs</b>	
all mounting positions	
— up to 55 °C, max.	8
<b>Input voltage</b>	
• Rated value (DC)	24 V
• for signal "0"	-3 to +5V
• for signal "1"	13 to 30V
<b>Input current</b>	
• for signal "1", typ.	7 mA
<b>Input delay (for rated value of input voltage)</b>	
for standard inputs	
— at "0" to "1", min.	1.2 ms
— at "0" to "1", max.	4.8 ms
— at "1" to "0", min.	1.2 ms
— at "1" to "0", max.	4.8 ms
<b>Cable length</b>	
• unshielded, max.	30 m
<b>Encoder</b>	
<b>Connectable encoders</b>	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
<b>1. Interface</b>	
<b>Functionality</b>	
• PROFIBUS DP slave	Yes
<b>DP slave</b>	
• Transmission rate, max.	12 Mbit/s
<b>Services</b>	
— Direct data exchange (slave-to-slave communication)	Yes

Interrupts/diagnostics/status information	
Diagnostic functions	Parameterizable
Alarms	
• Diagnostic alarm	Yes
Diagnostics indication LED	
• Bus fault BF (red)	Yes
• Group error SF (red)	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	No
Potential separation digital outputs	
• between the channels	No
Dimensions	
Width	134 mm
Height	110 mm
Depth	55 mm
Weights	
Weight, approx.	500 g
<b>last modified:</b>	03/11/2017