

\*\*\* SPARE PART\*\*\* SIMATIC DP, BASIC MODULE BM142 FOR ET200X, 4DO 24V DC/2A 5-PIN M12, PROTECTION IP 66/67, INTEGR. 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 |
| from load voltage 2L+ (without load), max. | 12 mA  |

### Power loss

- |                  |     |
|------------------|-----|
| Power loss, typ. | 4 W |
|------------------|-----|

### Hardware configuration

#### Expansion modules

- |  |   |
|--|---|
| • Number of expansion modules, max.                  | 7 |
| — of which motor starters/frequency converters, max. | 6 |

— of which pneumatic interfaces, max.

6

## Digital inputs

### Cable length

- unshielded, max. 30 m; Signal cables

## Digital outputs

### Number of digital outputs

4

### Short-circuit protection

Yes; Electronic

- Response threshold, typ.

3 A

### Switching capacity of the outputs

- on lamp load, max.

10 W

### Output current

- for signal "1" rated value
- for signal "0" residual current, max.

2 A; at 24 V DC

0.5 mA

### Switching frequency

- with resistive load, max.
- with inductive load (acc. to IEC 60947-5-1, DC13), max.
- on lamp load, max.

100 Hz

0.5 Hz

1 Hz

### Total current of the outputs (per module)

#### all mounting positions

— up to 20 °C, max.

6 A

— up to 55 °C, max.

4 A

### Cable length

- unshielded, max.

30 m

## 1. Interface

### Functionality

- PROFIBUS DP slave

Yes

### DP slave

- Transmission rate, max.

12 Mbit/s; 9,6 / 19,2 / 93,75 / 187,5 / 500 kbit/s; 1,5 / 3 / 6 / 12 Mbit/s

### Services

— Direct data exchange (slave-to-slave communication)

Yes; Sender

## Interrupts/diagnostics/status information

### Diagnostic functions

Parameterizable

### Alarms

- Diagnostic alarm

Yes

### Diagnostics indication LED

- Bus fault BF (red)
- Group error SF (red)
- Monitoring 24 V voltage supply ON (green)

Yes

Yes

Yes

### Potential separation

between PROFIBUS DP and all other circuit components	Yes
--	-----

### Potential separation digital inputs

- |  |     |
|--|-----|
| • between the channels   | No  |
| • between the channels and backplane bus                       | Yes |
| • between the channels and the power supply of the electronics | Yes |

### Potential separation digital outputs

- |  |     |
|--|-----|
| • between the channels   | No  |
| • between the channels and backplane bus                       | Yes |
| • between the channels and the power supply of the electronics | Yes |

### Dimensions

Width	134 mm; Width module 107 mm
Height	110 mm
Depth	55 mm

### Weights

Weight, approx.	500 g
-----------------	-------

<b>last modified:</b>	08/12/2017
-----------------------	------------