

SIMATIC DP, BASIC MODULE BM142 ET 200ECO: 8 DO DC 24 V/2 A; 8 X M12, SINGLE-ASSIGNMENT, DEGREE OF PROTECTION IP65/67; CONNECTING BLOCK 6ES7194-3AA00-0.A0 MUST BE ORDERED SEPARATELY



General information

Vendor identification (VendorID)	80DDh
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Supply voltage

Rated value (DC)	24 V
Reverse polarity protection	Yes

Load voltage 2L+

<ul style="list-style-type: none"> Rated value (DC) 	24 V
<ul style="list-style-type: none"> Reverse polarity protection 	Yes

Input current

from supply voltage 1L+, max.	70 mA; Typical
from load voltage 2L+ (without load), max.	60 mA; Typical

Power loss

Power loss, typ.	4 W
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Digital outputs

Number of digital outputs	8
Short-circuit protection	Yes
<ul style="list-style-type: none"> Response threshold, typ. 	4 A; Per channel

Limitation of inductive shutdown voltage to	2L+ (-44 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
• on lamp load, max.	10 W
Load resistance range	
• lower limit	12 Ω
• upper limit	4 kΩ
Output voltage	
• for signal "1", min.	2L+ (-0,8 V)
Output current	
• for signal "1" rated value	2 A
• for signal "1" permissible range for 0 to 55 °C, min.	5 mA
• for signal "1" permissible range for 0 to 55 °C, max.	2.4 A
• for signal "0" residual current, max.	0.5 mA
Parallel switching of two outputs	
• for uprating	No
• for redundant control of a load	Yes
Switching frequency	
• with resistive load, max.	100 Hz
• with inductive load, max.	0.5 Hz; According to IEC 60947-5-1, DC-13
• on lamp load, max.	1 Hz
Total current of the outputs (per group)	
all mounting positions	
— up to 55 °C, max.	4 A; 4 A each for sockets X1, X3, X5, X7 and 4 A each for sockets X2, X4, X6, X8; note the current carrying capacity of the cable
Cable length	
• unshielded, max.	30 m
Interfaces	
PROFIBUS DP	
• Transmission rate, max.	12 Mbit/s; 9,6 / 19,2 / 45,45 / 93,75 / 187,5 / 500 kbit/s; 1,5 / 3 / 6 / 12 Mbit/s
Protocols	
PROFIBUS DP	Yes
Interrupts/diagnostics/status information	
Alarms	No
Diagnostic messages	
• Diagnostic information readable	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes

- Channel fault indicator F (red)

No

Potential separation

between PROFIBUS DP and all other circuit components

Yes

Potential separation digital outputs

- between the channels

No

Permissible potential difference

between different circuits

75 V DC/60 V AC

Isolation

Isolation tested with

500 V DC

Degree and class of protection

IP degree of protection

IP65/67

Dimensions

Width

60 mm

Height

210 mm

Depth

28 mm

Weights

Weight, approx.

210 g

last modified:

03/10/2017