

SIMATIC DP, BASIC MODULE BM143 ET 200ECO: 8DI/8DO, 2A; 8 X M12, DOUBLE-ASSIGNMENT, DEGREE OF PROTECTION IP65/67; CONNECTING BLOCK 6ES7194-3AA00-0.A0 MUST BE ORDERED SEPARATELY



General information	
Vendor identification (VendorID)	80DCh
Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	No
Load voltage 2L+	
<ul style="list-style-type: none"> Rated value (DC) 	24 V
<ul style="list-style-type: none"> Reverse polarity protection 	No
Input current	
from supply voltage 1L+, max.	70 mA; Typical
from load voltage 2L+ (without load), max.	60 mA; Typical
Encoder supply	
Number of outputs	8
Type of output voltage	24 V DC
Short-circuit protection	Yes; Electronic
Output current	
<ul style="list-style-type: none"> Rated value 	0.75 A; up to 55°C max. 0.75 A (summation current)

Power loss	
Power loss, typ.	5 W
Digital inputs	
Number of digital inputs	8
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 55 °C, max.	8
Input voltage	
• Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "0"	-3 to +5V
• for signal "1"	13 to 30V
Input current	
• for signal "1", typ.	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	3 ms; Typical
— at "1" to "0", max.	3 ms; Typical
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes
• 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
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
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 input (green)	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 inputs	
• between the channels	No
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
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Degree and class of protection

IP degree of protection	IP65/67
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Dimensions

Width	60 mm
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Height	210 mm
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Depth	28 mm
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Weights

Weight, approx.	210 g
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last modified:	03/11/2017
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