

Spare part SIMATIC DP, Basic module BM 142 ET 200X, 4 DA
DC 24V/2A, 5-pole, M12, IP66/67, int. PROFIBUS DP interface
12MBit/s, int. SV connections



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	2 A; at 24 V DC
• for signal "0" residual current, max.	0.5 mA
Switching frequency	
• with resistive load, max.	100 Hz
• with inductive load (acc. to IEC 60947-5-1, DC13), max.	0.5 Hz
• on lamp load, max.	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
Interfaces	
PROFIBUS DP	
• SYNC capability	Yes
• FREEZE capability	Yes
1. Interface	
Protocols	
• PROFIBUS DP slave	Yes
PROFIBUS 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
Protocols	
PROFIBUS DP	Yes
Interrupts/diagnostics/status information	

Diagnostic functions	Parameterizable
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Diagnostic information readable	Yes
Diagnostics indication LED	
• Bus fault BF (red)	Yes
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes
• Monitoring 24 V voltage supply ON (green)	Yes
• Load voltage monitoring 24 V DC (green)	Yes
Potential separation	
between the load voltages	No
between load voltage and all other switching components	Yes
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
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