

*** SPARE PART*** SIMATIC DP, DISTRIBUTED I/O
 ET200X: BASIC MOD. BM141/ECOFAS 8 DE DC 24V, 5-PIN M12,
 WITH SINGLE-CHANNEL PORT, HYBRID FIELD BUS INTERFACE
 (RS485), IDENT CONNECTOR, IP67 IDENT CONNECTOR, IP67



Figure similar

Input current	
from backplane bus 5 V DC, max.	180 mA
from load voltage, unswitched (NS)	
• up to 40 °C, max.	10 A
• up to 55 °C, max.	8 A
from load voltage, switched (S)	
• up to 40 °C, max.	10 A
• up to 55 °C, max.	8 A
Encoder supply	
Number of outputs	8
Short-circuit protection	Yes; Electronic
Output current	
• up to 40 °C, max.	1 A
• up to 55 °C, max.	0.8 A
Power loss	
Power loss, typ.	3.5 W

Hardware configuration	
Expansion modules	
<ul style="list-style-type: none"> Number of expansion modules, max. 	7
<ul style="list-style-type: none"> — of which motor starters/frequency converters, max. 	6
<ul style="list-style-type: none"> — of which pneumatic interfaces, max. 	6
Digital inputs	
Number of digital inputs	8; 8 process channels DI, single channel connector
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
all mounting positions	
<ul style="list-style-type: none"> — up to 55 °C, max. 	8
Input voltage	
<ul style="list-style-type: none"> Rated value (DC) 	24 V
<ul style="list-style-type: none"> for signal "0" 	-3 to +5V
<ul style="list-style-type: none"> for signal "1" 	13 to 30V
Input current	
<ul style="list-style-type: none"> for signal "1", typ. 	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
<ul style="list-style-type: none"> — at "0" to "1", min. 	1.2 ms
<ul style="list-style-type: none"> — at "0" to "1", max. 	4.8 ms
<ul style="list-style-type: none"> — at "1" to "0", min. 	1.2 ms
<ul style="list-style-type: none"> — at "1" to "0", max. 	4.8 ms
Cable length	
<ul style="list-style-type: none"> unshielded, max. 	30 m; for signal lines
Encoder	
Connectable encoders	
<ul style="list-style-type: none"> 2-wire sensor 	Yes
<ul style="list-style-type: none"> — permissible quiescent current (2-wire sensor), max. 	1.5 mA
1. Interface	
Functionality	
<ul style="list-style-type: none"> PROFIBUS DP slave 	Yes
DP slave	
<ul style="list-style-type: none"> Transmission rate, max. 	12 Mbit/s; 9,6 / 19,2 / 45,45 / 93,75 / 187,5 / 500 kbit/s; 1,5 / 12 Mbit/s
Services	
<ul style="list-style-type: none"> — Direct data exchange (slave-to-slave communication) 	Yes; Sender

Interrupts/diagnostics/status information	
Diagnostic functions	Parameterizable
Alarms	
• Diagnostic alarm	Yes
Diagnostics indication LED	
• Group error SF (red)	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	No
Potential separation digital outputs	
• between the channels	No
• between the channels and backplane bus	No
Dimensions	
Width	175 mm; 180 when screw mounted
Height	180 mm; 174 when screw mounted
Depth	110 mm; 90 when screw mounted
Weights	
Weight, approx.	650 g
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