

*** SPARE PART*** SIMATIC DP, DISTRIBUTED I/O
ET200X: BASICMODULE BM143/DESINA 8 DI/DO
CONFIGURABLE, ADDITIONAL DIAGNOSTICS-INPUTS, HYBRID
FIELD BUS INTERF. (FO), IDENT CONNECTOR, IP67



Figure similar

Input current	
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	
• Number of expansion modules, max.	7
— of which motor starters/frequency converters, max.	6
— of which pneumatic interfaces, max.	6
Digital inputs	
Number of digital inputs	8; 8 process channels, parameterization as DI/DO; 8 function channels, parameter assignment as diagnostics/NC input
Input characteristic curve in accordance with IEC 61131, type 2	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 55 °C, max.	8
Input voltage	
• Rated value (DC)	24 V; Input voltage for parameterized DI (Pin 4): Rated value 24 VDC, for signal "1": 13 to 30 V, for signal "0": -30 to +5 V; Input voltage for input functionality (Pin 2): Rated value 24 VDC, for signal "1": 13 to 30 VDC, for signal "0": -30 to +2 V
• for signal "0"	-3 to +5V
• for signal "1"	13 to 30V
Input current	
• for signal "1", typ.	5 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", min.	1.2 ms
— at "0" to "1", max.	4.8 ms
— at "1" to "0", min.	1.2 ms
— at "1" to "0", max.	4.8 ms
Cable length	
• unshielded, max.	30 m; for signal lines
Digital outputs	
Number of digital outputs	8; 8 process channels, parameterization as DI/DO; 8 function channels, parameter assignment as diagnostics/NC input
Short-circuit protection	Yes; Electronic
• Response threshold, typ.	1.8 A
Switching capacity of the outputs	
• on lamp load, max.	10 W
Output current	
• for signal "1" rated value	1.2 A
• 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.	2 Hz
• on lamp load, max.	1 Hz
Total current of the outputs (per module)	
all mounting positions	
— up to 20 °C, max.	10 A
— up to 55 °C, max.	5 A
Cable length	
• unshielded, max.	30 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
1. Interface	
Functionality	
• PROFIBUS DP slave	Yes
DP slave	
• 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	
— 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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