

# SIEMENS

## Product data sheet

**6ES7143-3BH00-0XA0**


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 SEPARTELY

General information	
Vendor identification (VendorID)	80DCh
Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	No
Load voltage 2L+	
Rated value (DC)	24 V
Reverse polarity protection	No
Input current	
from load voltage 2L+ (without load), max.	60 mA ; typ.
from supply voltage 1L+, max.	70 mA ; typ.
Encoder supply	
Number of outputs	8
Output voltage	24 V DC
Output current, rated value	0.75 A ; up to 55°C max. 0.75 A (summation current)

<b>Output current</b>	
Short-circuit protection	Yes ; Electronic
<b>Power losses</b>	
Power loss, typ.	5 W
<b>Digital inputs</b>	
Number/binary inputs	8
Input characteristic curve acc. to IEC 61131, Type 1	Yes
Number of simultaneously controllable inputs	8 ; All mounting positions up to 55 °C
<b>Input voltage</b>	
Type of input voltage	DC
Rated value, DC	24 V
for signal "0"	-3 to +5 V
for signal "1"	13 to 30 V
<b>Input current</b>	
for signal "1", typ.	7 mA
<b>Input delay (for rated value of input voltage)</b>	
for standard inputs	
at "0" to "1", max.	3 ms ; typ.
at "1" to "0", max.	3 ms ; typ.
<b>Digital outputs</b>	
Number/binary outputs	8
Functionality/short-circuit strength	Yes ; Electronic
Response threshold, typ.	4 A per channel
Limitation of inductive shutdown voltage to	2L+ (-44 V)
Lamp load, max.	10 W
Controlling a digital input	Yes
<b>Load resistance range</b>	
lower limit	12 Ω
upper limit	4 kΩ
<b>Output voltage</b>	
for signal "1", min.	2L+ (-0.8 V)
<b>Output current</b>	
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
<b>Parallel switching of 2 outputs</b>	
for increased power	No
for redundant control of a load	Yes
<b>Switching frequency</b>	
with resistive load, max.	100 Hz
with inductive load, max.	0.5 Hz ; to IEC 947-5-1, DC13
on lamp load, max.	1 Hz
<b>Aggregate current of outputs (per group)</b>	
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
<b>Cable length</b>	
Cable length unshielded, max.	30 m
<b>Encoder</b>	
Connectable encoders	
2-wire sensor	Yes
Permissible quiescent current (2-wire sensor), max.	1.5 mA
<b>Interfaces</b>	
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
<b>Protocols</b>	
PROFIBUS DP protocol	Yes
<b>Interrupts/diagnostics/status information</b>	
Status indicator	Yes
<b>Alarms</b>	
Alarms	No
<b>Diagnostic messages</b>	
Diagnostics	Yes ; Diagnostic information readable

Diagnostics indication LED	
Group error SF (red)	Yes
Status indicator digital output (green)	Yes
Status indicator digital input (green)	Yes
Channel error indicator F (red)	No
Galvanic isolation	
between PROFIBUS DP and all other circuit components	Yes
Galvanic isolation digital inputs	
between the channels	No
Galvanic isolation digital outputs	
between the channels	No
Permissible potential difference	
between different circuits	75 VDC / 60 VAC
Isolation	
Isolation checked with	500 V DC
Dimensions	
Width	60 mm
Height	210 mm
Depth	28 mm
Weight	
Weight, approx.	210 g
Status	Jul 17, 2012