

SIEMENS

Product data sheet

6ES7143-3BH10-0XA0


SIMATIC DP,
BASIC MOD. BM143 ET 200ECO: 8DI/8DO,
1.3A, 8 X M12, DOUBLE-ASSIGNMENT,
IP65/67,
CONN. BLOCK 6ES7194-3AA00-0.A0 MUST BE
ORDERED SEPARATELY

General information

Vendor identification (VendorID) 80FCh

Supply voltage

Rated value (DC) 24 V

Reverse polarity protection Yes

Load voltage 2L+

Rated value (DC) 24 V

Reverse polarity protection Yes

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 current, rated value 1 A ; Up to 55°C max. 1 A (summation current)

Output current

Short-circuit protection	Yes ; Electronic
Power losses	
Power loss, typ.	5 W
Digital inputs	
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
Input voltage	
Type of input voltage	DC
Rated value, DC	24 V
for signal "0"	-3 to +5 V
for signal "1"	13 to 30 V
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 ; typ.
at "1" to "0", max.	3 ms ; typ.
Digital outputs	
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
Load resistance range	
lower limit	12 Ω
upper limit	4 kΩ
Output voltage	
for signal "1", min.	2L+ (-1.2 V)
Output current	
for signal "1" rated value	1.3 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.	1.8 A
for signal "0" residual current, max.	0.5 mA
Parallel switching of 2 outputs	
for increased power	No
for redundant control of a load	Yes
Switching frequency	
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
Aggregate current of outputs (per group)	
all mounting positions	
up to 55 °C, max.	5.2 A ; Please note the current carrying capacity of the cable!
Cable length	
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 protocol	Yes
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	
Alarms	No
Diagnostic messages	
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