

# SIEMENS

## Product data sheet

**6ES7141-3BF00-0XA0**


SIMATIC DP,  
BASIC MODULE BM141 ET 200ECO: 8DI 24V DC;  
8 X M12, SINGLE-ASSIGNMENT,  
DEGREE OF PROTECTION IP65/67;  
CONNECTING BLOCK 6ES7194-3AA00-0.A0 MUST  
BE ORDERED SEPARATELY

### General information

Vendor identification (VendorID) 80DBh

### Supply voltage

Rated value (DC) 24 V

Reverse polarity protection Yes

### Input current

from supply voltage 1L+, max. 70 mA ; typ.

### Encoder supply

Number of outputs 8

Output voltage 24 V DC

Output current, rated value 1 A ; Aggregate current up to 55 °C

### Output current

Short-circuit protection Yes ; Electronic

### Power losses

Power loss, typ. 2.4 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.                                                                           |
| 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 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              |
| 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    |