



SIMATIC DP, basic module BM 142 ET 200ECO: 16 DO 24 V DC/0.5A, 8xM12, Duplicate assignment, IP65/67, Connection block 6ES7194-3AA00-0.A0 order separately

General information	
Vendor identification (VendorID)	80FBh
Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Load voltage 2L+	
<ul style="list-style-type: none"> Rated value (DC) 	24 V
<ul style="list-style-type: none"> Reverse polarity protection 	Yes
Input current	
from supply voltage 1L+, max.	70 mA; Typical
from load voltage 2L+ (without load), max.	80 mA; Typical
Power loss	
Power loss, typ.	4 W
Digital outputs	
Number of digital outputs	16
Short-circuit protection	Yes
<ul style="list-style-type: none"> Response threshold, typ. 	1.4 A; Per channel
Limitation of inductive shutdown voltage to	2L+ (-47 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
<ul style="list-style-type: none"> on lamp load, max. 	5 W
Load resistance range	
<ul style="list-style-type: none"> lower limit 	12 Ω
<ul style="list-style-type: none"> upper limit 	4 kΩ
Output voltage	
<ul style="list-style-type: none"> for signal "1", min. 	2L+ (-0,8 V)
Output current	
<ul style="list-style-type: none"> for signal "1" rated value 	0.5 A
<ul style="list-style-type: none"> for signal "1" permissible range for 0 to 55 °C, min. 	5 mA
<ul style="list-style-type: none"> for signal "1" permissible range for 0 to 55 °C, max. 	1 A
<ul style="list-style-type: none"> for signal "0" residual current, max. 	0.1 mA
Parallel switching of two outputs	
<ul style="list-style-type: none"> for uprating 	No
<ul style="list-style-type: none"> for redundant control of a load 	Yes
Switching frequency	
<ul style="list-style-type: none"> with resistive load, max. 	100 Hz
<ul style="list-style-type: none"> with inductive load, max. 	0.5 Hz; According to IEC 60947-5-1, DC-13
<ul style="list-style-type: none"> on lamp load, max. 	1 Hz
Total current of the outputs (per group)	

all mounting positions		
— up to 55 °C, max.	4 A; Please note the current carrying capacity of the cable!	
Cable length		
• unshielded, max.	30 m	
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	Yes	
Interrupts/diagnostics/status information		
Alarms	No	
Diagnoses		
• Diagnostic information readable	Yes	
Diagnostics indication LED		
• Group error SF (red)	Yes	
• Status indicator digital output (green)	Yes	
• Channel fault indicator F (red)	No	
Potential separation		
between PROFIBUS DP and all other circuit components	Yes	
Potential separation digital outputs		
• between the channels	No	
Permissible potential difference		
between different circuits	75 V DC/60 V AC	
Isolation		
Isolation tested with	500 V DC	
Degree and class of protection		
IP degree of protection	IP65/67	
Connection method		
Design of electrical connection	4/5-pin M12 circular connectors	
Dimensions		
Width	60 mm	
Height	210 mm	
Depth	28 mm	
Weights		
Weight, approx.	210 g	
Classifications		
	Version	Classification
eClass	14	27-24-26-04
eClass	12	27-24-26-04
eClass	9.1	27-24-26-04
eClass	9	27-24-26-04
eClass	8	27-24-26-04
eClass	7.1	27-24-26-04
eClass	6	27-24-26-04
ETIM	10	EC001599
ETIM	9	EC001599
ETIM	8	EC001599
ETIM	7	EC001599
IDEA	4	3566
UNSPSC	15	32-15-17-05
Approvals / Certificates		
General Product Approval		



[Miscellaneous](#)

[Manufacturer Declaration](#)



General Product Approval

EMV

Maritime application



[China RoHS](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)



[CCS \(China Classification Society\)](#)

[KR \(Korean Register of Shipping\)](#)

Industrial Communication



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