



SIMATIC DP,
BASIC MODULE BM142 FOR ET200X,
4DO 24V DC/2A 5-PIN M12,
PROTECTION IP 66/67,
INTEGR. PROFIBUS DP IF, 12 MBIT/S,
INTEGR. PS INTERFACE

Supply voltage	
Load voltage 1L+	
Rated value (DC)	24 V
Short-circuit protection	Yes ; Electronic
Reverse polarity protection	Yes
Load voltage 2L+	
Rated value (DC)	24 V
Reverse polarity protection	No
Input current	
from load voltage 2L+ (without load), max.	12 mA
from supply voltage 1L+, max.	180 mA
Power loss	
Power loss, typ.	4 W
Hardware configuration	
Expansion modules	
Number of expansion modules, max.	7
of which motor starters, max.	6
of which pneumatic interfaces, max.	6

Digital inputs	
Cable length	
Cable length unshielded, max.	30 m ; Signal cables
Digital outputs	
Number of digital outputs	4
Short-circuit protection	Yes ; Electronic
Response threshold, typ.	3 A
Switching capacity of the outputs	
Lamp load, max.	10 W
Output current	
for signal "1" rated value	2 A ; at 24 V DC
for signal "0" residual current, max.	0.5 mA
Switching frequency	
with resistive load, max.	100 Hz
with inductive load, max.	0.5 Hz
on lamp load, max.	1 Hz
Total current of the outputs (per group)	
all mounting positions	
up to 20 °C, max.	6 A
up to 55 °C, max.	4 A
Cable length	
Cable length unshielded, max.	30 m
1. Interface	
Functionality	
DP slave	Yes
DP slave	
Transmission rate, min.	9.6 kbit/s
Transmission rate, max.	12 Mbit/s ; 9,6 / 19,2 / 93,75 / 187,5 / 500 kbit/s; 1,5 / 3 / 6 / 12 Mbit/s
Services	
Direct data exchange (slave-to-slave communication)	Yes ; Sender
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes
Diagnostics indication LED	
Bus fault BF (red)	Yes
Group error SF (red)	Yes
Monitoring 24 V voltage supply ON (green)	Yes
Galvanic isolation	

between PROFIBUS DP and all other circuit components	Yes
Galvanic isolation digital inputs	
between the channels	No
between the channels and the backplane bus	Yes
Dimensions	
Width	134 mm ; Width module 107 mm
Height	110 mm
Depth	55 mm
Status	Jul 28, 2014