6ES7143-4BF50-0AA0

Data sheet



SIMATIC DP, Electronic modules for ET 200 PRO 4 DI/4 DO 24 V DC, 0.5A Module diagnostics; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately

Supply voltage	
Load voltage 2L+	
 Rated value (DC) 	24 V
 Short-circuit protection 	Yes
 Reverse polarity protection 	Yes
Input current	
from load voltage 2L+ (without load), max.	20 mA
from backplane bus 3.3 V DC, max.	20 mA
Encoder supply	
Short-circuit protection	Yes; per module, electronic
Output current	
• up to 55 °C, max.	1 A
Power loss	
Power loss, typ.	2 W
Digital inputs	
Number of digital inputs	4
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Input voltage	
Rated value (DC)	24 V
• for signal "0"	-3 to +5V
• for signal "1"	+11 to +30V
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
— at "1" to "0", max.	3 ms
Cable length	
• unshielded, max.	30 m
Digital outputs	
Number of digital outputs	4
Short-circuit protection	Yes; per channel, electronic
Response threshold, typ.	0.7 A
Limitation of inductive shutdown voltage to	Typ. (2L+) -47 V
Controlling a digital input	Yes
Switching capacity of the outputs	
● on lamp load, max.	5 W
Load resistance range	

- levven limit	40.0
• lower limit	48 Ω
• upper limit	4 kΩ
Output current	0.5.4
• for signal "1" rated value	0.5 A
• for signal "0" residual current, max.	0.5 mA
Parallel switching of two outputs	
• for uprating	No
for redundant control of a load	Yes
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 55 °C, max.	2 A
Cable length	
unshielded, max.	30 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
 permissible quiescent current (2-wire sensor), 	1.5 mA
max.	
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
 Diagnostic information readable 	Yes
	Yes; Short-circuit of outputs to ground; module by module
Short-circuit	
Short-circuit Diagnostics indication LED	
	Yes
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Diagnostics indication LED • Status indicator digital input (green)	
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