



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
Sourcing/sinking input	P-reading
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
Current-sourcing	Yes
output type acc. to IEC 61131, type 0.5	Yes
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	

<ul style="list-style-type: none">• on lamp load, max.	5 W		
Load resistance range			
<ul style="list-style-type: none">• lower limit	48 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 "0" residual current, max.	0.5 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		
<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.	2 A		
Cable length			
<ul style="list-style-type: none">• unshielded, max.	30 m		
Encoder			
Connectable encoders			
<ul style="list-style-type: none">• 2-wire sensor	Yes		
— permissible quiescent current (2-wire sensor), max.	1.5 mA		
Interrupts/diagnostics/status information			
Diagnostics function		Yes	
Alarms			
<ul style="list-style-type: none">• Diagnostic alarm	Yes		
Diagnoses			
<ul style="list-style-type: none">• Diagnostic information readable	Yes		
<ul style="list-style-type: none">• short-circuit	Yes; Short-circuit of outputs to ground; module by module		
Diagnostics indication LED			
<ul style="list-style-type: none">• Status indicator digital input (green)	Yes		
<ul style="list-style-type: none">• Status indicator digital output (green)	Yes		
Potential separation			
between backplane bus and all other circuit components		Yes	
Potential separation digital inputs			
<ul style="list-style-type: none">• between the channels	No		
<ul style="list-style-type: none">• between the channels and backplane bus	Yes		
Potential separation digital outputs			
<ul style="list-style-type: none">• between the channels	No		
<ul style="list-style-type: none">• between the channels and backplane bus	Yes		
Isolation			
Isolation tested with		707 V DC (type test)	
Dimensions			
Width		45 mm	
Height		130 mm	
Depth		35 mm	
Weights			
Weight, approx.		140 g	
Classifications			
		Version	Classification
	eClass	16	27-24-26-04
	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

Maritime application



[China RoHS](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)



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

Maritime application

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

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