



SIMATIC DP, Electronic modules for ET 200 PRO 8 DO 24 V DC, 0.5 A 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; per channel, electronic
• Reverse polarity protection	Yes; against destruction; load increasing
Input current	
from load voltage 2L+ (without load), max.	30 mA
from backplane bus 3.3 V DC, max.	30 mA
Power loss	
Power loss, typ.	2 W
Address area	
Address space per module	
• Address space per module, max.	1 byte
Digital outputs	
Number of digital outputs	8
Current-sourcing	Yes
output type acc. to IEC 61131, type 0.5	Yes
Short-circuit protection	Yes
• Response threshold, typ.	0.7 A
Limitation of inductive shutdown voltage to	2L+ (-47 V)
Controlling a digital input	Yes; Isolation between 1L+ and 2L+ is no longer provided, as 1M and 2M are jumpered
Switching capacity of the outputs	
• on lamp load, max.	5 W
Load resistance range	
• lower limit	48 Ω
• upper limit	4 kΩ
Output voltage	
• for signal "1", min.	2L+ (-0,8 V)
Output current	
• 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.	4 A		
Cable length			
• shielded, max.	30 m		
• unshielded, max.	30 m		
Interrupts/diagnostics/status information			
Diagnostics function	Yes		
Alarms			
• Diagnostic alarm	Yes		
Diagnoses			
• Diagnostic information readable	Yes		
• short-circuit	Yes; Short-circuit of outputs to ground; module by module		
Diagnostics indication LED			
• Group error SF (red)	Yes		
• Status indicator digital output (green)	Yes		
Potential separation			
between backplane bus and all other circuit components	Yes		
Potential separation digital outputs			
• between the channels	No		
• between the channels and backplane bus	Yes		
Isolation			
Isolation tested with	707 V DC (type test)		
Standards, approvals, certificates			
Suitable for safety-related tripping of standard modules	Yes		
Highest safety class achievable for safety-related tripping of standard modules			
• Performance level according to ISO 13849-1	PL d		
• Category according to ISO 13849-1	Cat. 3		
• SIL acc. to IEC 62061	SIL 2		
• remark on safety-oriented shutdown	https://support.industry.siemens.com/cs/de/en/view/39198632		
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



[China RoHS](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)



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

Maritime application

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

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