



Figure similar

spare part SIMATIC S7-300, digital output SM 322, isolated, 8 DO, 24 V DC, 0.5 A (1x 8 DO), short-circuit protection diagnostics, 1x 20-pole

Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
• permissible range, lower limit (DC)	20.4 V
• permissible range, upper limit (DC)	28.8 V
Input current	
from load voltage L+ (without load), max.	90 mA
from backplane bus 5 V DC, max.	70 mA
Power loss	
Power loss, typ.	5 W
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes; Electronic
• Response threshold, typ.	0.75 to 1.5 A
Limitation of inductive shutdown voltage to	L+ (-45 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
• on lamp load, max.	5 W
Load resistance range	
• lower limit	48 Ω
• upper limit	3 kΩ
Output voltage	
• for signal "1", min.	L+ (-0.8 to -1.6 V)
Output current	
• for signal "1" rated value	0.5 A
• for signal "1" permissible range for 0 to 40 °C, min.	10 mA
• for signal "1" permissible range for 0 to 40 °C, max.	0.6 A
• for signal "1" permissible range for 40 to 60 °C, min.	10 mA
• for signal "1" permissible range for 40 to 60 °C, max.	0.6 A
• for signal "1" minimum load current	10 mA
• for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
• "0" to "1", max.	180 μs
• "1" to "0", max.	245 μs
Parallel switching of two outputs	
• for uprating	No
• for redundant control of a load	Outputs with series diodes only
Switching frequency	

• with resistive load, max. • with inductive load, max. • with inductive load (acc. to IEC 60947-5-1, DC13), max. • on lamp load, max.	100 Hz 2 Hz 2 Hz 10 Hz		
Total current of the outputs (per group)			
horizontal installation			
— up to 40 °C, max.	4 A		
— up to 60 °C, max.	3 A		
vertical installation			
— up to 40 °C, max.	4 A		
Cable length			
• shielded, max. • unshielded, max.	1 000 m 600 m		
Interrupts/diagnostics/status information			
Diagnostics function	Yes; Parameterizable		
Alarms			
• Diagnostic alarm	Yes; Parameterizable		
Diagnoses			
• Diagnostic information readable • Wire-break • Short-circuit • Fuse blown • missing load voltage	Yes Yes Yes No Yes		
Diagnostics indication LED			
• Rated load voltage PWR (green) • Fuse OK FSG (green) • Group error SF (red) • Status indicator digital output (green) • Channel fault indicator F (red)	No No Yes Yes; per channel Yes		
Potential separation			
Potential separation digital outputs			
• between the channels, in groups of • between the channels and backplane bus	8 Yes; Optocoupler		
Isolation			
Isolation tested with	500 V DC		
Connection method			
required front connector	20-pin		
Dimensions			
Width	40 mm		
Height	125 mm		
Depth	120 mm		
Weights			
Weight, approx.	210 g		
Classifications			
		Version	Classification
	eClass	14	27-24-22-04
	eClass	12	27-24-22-04
	eClass	9.1	27-24-22-04
	eClass	9	27-24-22-04
	eClass	8	27-24-22-04
	eClass	7.1	27-24-22-04
	eClass	6	27-24-22-04
	ETIM	10	EC001419
	ETIM	9	EC001419
	ETIM	8	EC001419
	ETIM	7	EC001419

IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval	EMV
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last modified:

4/7/2025 