



Figure similar

spare part SIMATIC S7-300, digital output SM 322, isolated, 8 DO, 48-125 V DC, 1.5 A, 1x 20-pole

Supply voltage	
Load voltage L+	
• Rated value (DC)	48 V; 48 V DC to 125 V DC
• permissible range, lower limit (DC)	40 V
• permissible range, upper limit (DC)	140 V
• Reverse polarity protection	Yes; through fuse
Input current	
from load voltage L+ (without load), max.	2 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	7.2 W
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes; Electronic
• Response threshold, typ.	4.4 A
Limitation of inductive shutdown voltage to	M (-1 V)
Controlling a digital input	Yes
Spare fuses	6.3 A / 250 V, quick-response, 5x 20 mm
Switching capacity of the outputs	
• on lamp load, max.	15 W; 15 W (48 V) or 40 W (125 V)
Output voltage	
• for signal "1", min.	L+ (-1.2 V)
Output current	
• for signal "1" rated value	1.5 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.	1.5 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.	1.5 A
• for signal "1" minimum load current	10 mA
• for signal "1" permissible surge current, max.	3 A; for 10 ms
• for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
• "0" to "1", max.	2 ms
• "1" to "0", max.	15 ms
Parallel switching of two outputs	
• for uprating	No
• for redundant control of a load	Yes; only outputs of the same group
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.	25 Hz 0.5 Hz 0.5 Hz 10 Hz		
Total current of the outputs (per group)			
horizontal installation			
— up to 40 °C, max.	6 A		
— up to 50 °C, max.	4 A		
— up to 60 °C, max.	3 A		
vertical installation			
— up to 40 °C, max.	4 A		
Cable length			
• shielded, max.	1 000 m		
• unshielded, max.	600 m		
Interrupts/diagnostics/status information			
Alarms	No		
Diagnostics function	No		
Alarms			
• Diagnostic alarm	No		
Diagnoses			
• Wire-break	No		
• Short-circuit	No		
• Fuse blown	No		
• missing load voltage	No		
Diagnostics indication LED			
• Rated load voltage PWR (green)	No		
• Fuse OK FSG (green)	No		
• Group error SF (red)	Yes		
• Status indicator digital output (green)	Yes		
Potential separation			
Potential separation digital outputs			
• between the channels	Yes		
• between the channels, in groups of	4		
• between the channels and backplane bus	Yes; Optocoupler		
Isolation			
Isolation tested with	1 500 V AC		
Connection method			
required front connector	20-pin		
Dimensions			
Width	40 mm		
Height	125 mm		
Depth	120 mm		
Weights			
Weight, approx.	250 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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EMV	Test Certificates	Maritime application
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[KC](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Maritime application	other	Environment
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[Environmental Confirmations](#)

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