



Figure similar

spare part SIMATIC S7-300, digital output SM 322, isolated, 8 DO (relay), 1x 40-pole, 24 V DC, 120-230 V AC, 5 A with RC filter overvoltage protection

Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
• permissible range, lower limit (DC)	24 V
• permissible range, upper limit (DC)	120 V
Load voltage L1	
• Rated value (AC)	230 V
Input current	
from supply voltage L+, max.	160 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	3.5 W
Digital outputs	
Number of digital outputs	8; Relays
Short-circuit protection	No; to be provided externally
Controlling a digital input	Yes
Switching capacity of the outputs	
• on lamp load, max.	1 500 W; 230 V AC
• Low energy/fluorescent lamps with electronic control gear	10x 58 W
• Fluorescent tubes, conventionally compensated	1x 58 W
• Fluorescent tubes, uncompensated	10x 58 W
Output current	
• for signal "1" rated value	5 A
• for signal "1" minimum load current	10 mA
Parallel switching of two outputs	
• for uprating	No
• for redundant control of a load	Yes
Switching frequency	
• with resistive load, max.	2 Hz
• with inductive load, max.	0.5 Hz
• With inductive load (to IEC 60947-5-1, DC13/AC15), max.	0.5 Hz
• on lamp load, max.	2 Hz
• mechanical, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 60 °C, max.	5 A
vertical installation	
— up to 40 °C, max.	5 A

Relay outputs			
<ul style="list-style-type: none">• Contact connection (internal)	Yes; 330 Ohm, 0.1uF		
<ul style="list-style-type: none">• Number of operating cycles, max.	100 000; 100 000 (24 V DC, at 5 A), 100 000 (230 V AC, at 5 A)		
Switching capacity of contacts			
<ul style="list-style-type: none">— with inductive load, max.	5 A; 5 A (230 V DC), 5 A (24 V AC)		
<ul style="list-style-type: none">— with resistive load, max.	5 A; 5 A (230 V DC), 5 A (24 V AC)		
<ul style="list-style-type: none">— Thermal continuous current, max.	5 A		
Cable length			
<ul style="list-style-type: none">• shielded, max.	1 000 m		
<ul style="list-style-type: none">• unshielded, max.	600 m		
Interrupts/diagnostics/status information			
Alarms	Yes		
Diagnostics function	Yes; Parameterizable		
Alarms			
<ul style="list-style-type: none">• Diagnostic alarm	Yes; Parameterizable		
Diagnoses			
<ul style="list-style-type: none">• Diagnostic information readable	Yes		
Diagnostics indication LED			
<ul style="list-style-type: none">• Group error SF (red)	Yes		
<ul style="list-style-type: none">• Status indicator digital output (green)	Yes		
Potential separation			
Potential separation digital outputs			
<ul style="list-style-type: none">• between the channels	Yes		
<ul style="list-style-type: none">• between the channels, in groups of	1		
<ul style="list-style-type: none">• between the channels and backplane bus	Yes; Optocoupler		
<ul style="list-style-type: none">• Between the channels and the power supply of the relays	Yes		
Isolation			
Isolation tested with	1 500 V AC		
Connection method			
required front connector	40-pin		
Dimensions			
Width	40 mm		
Height	125 mm		
Depth	120 mm		
Weights			
Weight, approx.	320 g		
Classifications			
		Version	Classification
	eClass	16	27-24-22-04
	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			

[Miscellaneous](#)

[Manufacturer Declaration](#)



General Product Approval

EMV



[China RoHS](#)

[Manufacturer Declaration](#)



For use in hazardous locations

Maritime application

[FM](#)



[NK / Nippon Kaiji Kyokai](#)

Maritime application



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

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