



Figure similar

spare part SIMATIC S7-300, digital output SM 322, isolated 16 DO, 120/230 V AC, 1 A, 1x 20-pole

Supply voltage	
Load voltage L1	
• Rated value (AC)	230 V; 120/230 V AC
• permissible range, lower limit (AC)	79 V
• permissible range, upper limit (AC)	264 V
Input current	
from load voltage L1 (without load), max.	2 mA
from backplane bus 5 V DC, max.	200 mA
Power loss	
Power loss, typ.	8.6 W
Digital outputs	
Number of digital outputs	16
Short-circuit protection	Yes; Fuse 8 A, 250 V; per group
• required current for fuse shutdown, min.	40 A
• Response time, max.	300 ms
Controlling a digital input	Yes
Size of motor starters according to NEMA, max.	4 NEMA compliant
Spare fuses	8 A / quick response
Switching capacity of the outputs	
• on lamp load, max.	50 W
Output voltage	
• for signal "1" (at max. current), min.	L1 (-1.5 V)
• for signal "1" (at min. current), min.	L1 (-8.5 V)
Output current	
• for signal "1" rated value	1 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 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.	0.5 A
• for signal "1" minimum load current	10 mA
• for signal "1" permissible surge current, max.	20 A; with 2 half waves
• for signal "0" residual current, max.	2 mA
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.	10 Hz
• with inductive load, max.	0.5 Hz

• with inductive load (acc. to IEC 60947-5-1, AC15), max. • on lamp load, max.	0.5 Hz 1 Hz																																													
Total current of the outputs (per group)																																														
horizontal installation																																														
— up to 40 °C, max. — up to 60 °C, max.	4 A 2 A																																													
vertical installation																																														
— up to 40 °C, max.	2 A																																													
Cable length																																														
• shielded, max. • unshielded, max.	1 000 m 600 m																																													
Interrupts/diagnostics/status information																																														
Diagnostics function	Yes; Fuse blown or load voltage missing																																													
Alarms																																														
• Diagnostic alarm	No																																													
Diagnoses																																														
• Wire break • short-circuit • Fuse blown • Missing load voltage	No No Yes No																																													
Diagnostics indication LED																																														
• Rated load voltage PWR (green) • Fuse OK FSG (green) • Group error SF (red) • Status indicator digital output (green)	No Yes; Red LED for fuse Yes 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	4 000 V DC																																													
Connection method																																														
required front connector	20-pin																																													
Dimensions																																														
Width	40 mm																																													
Height	125 mm																																													
Depth	120 mm																																													
Weights																																														
Weight, approx.	275 g																																													
Classifications																																														
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Approvals / Certificates																																														

General Product Approval

[Miscellaneous](#)

[Manufacturer Declaration](#)



General Product Approval	EMV
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[China RoHS](#)

[Manufacturer Declaration](#)



For use in hazardous locations	Maritime application
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[EM](#)



[NK / Nippon Kaiji Kyokai](#)

Maritime application



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

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