



Figure similar

spare part SIMATIC S7-300, digital output SM 322, isolated, 32 DO, 120 V/230 V AC, 1 A, double-width, 2x 20-pole

Supply voltage	
Load voltage L1	
• Rated value (AC)	120 V; 120/230 V AC
• permissible range, lower limit (AC)	79 V
• permissible range, upper limit (AC)	264 V
• permissible frequency range, lower limit	47 Hz
• permissible frequency range, upper limit	63 Hz
Input current	
from load voltage L1 (without load), max.	10 mA
from backplane bus 5 V DC, max.	190 mA
Power loss	
Power loss, typ.	25 W
Digital outputs	
Number of digital outputs	32
Short-circuit protection	No
Controlling a digital input	Yes
Size of motor starters according to NEMA, max.	Size 4 according to NEMA
Zero-crossing switch	Yes; Max. 60 V
Switching capacity of the outputs	
• on lamp load, max.	50 W
Output voltage	
• for signal "1", min.	L1 (-0.8 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.	1 A
• for signal "1" minimum load current	10 mA
• for signal "1" permissible surge current, max.	10 A; per group (for 2 AC cycles)
• for signal "0" residual current, max.	2 mA
Output delay with resistive load	
• "0" to "1", max.	1 AC cycle
• "1" to "0", max.	1 AC cycle
Parallel switching of two outputs	
• for uprating	No
• for redundant control of a load	Yes; only outputs of the same group
Switching frequency	

<ul style="list-style-type: none"> • with resistive load, max. 	10 Hz	
<ul style="list-style-type: none"> • with inductive load, max. 	0.5 Hz	
<ul style="list-style-type: none"> • with inductive load (acc. to IEC 60947-5-1, AC15), max. 	0.5 Hz	
<ul style="list-style-type: none"> • on lamp load, max. 	1 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		
<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	No	
Diagnostics function	Yes; Fuse blown or load voltage missing	
Alarms		
<ul style="list-style-type: none"> • Diagnostic alarm 	No	
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; per channel	
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 	8	
<ul style="list-style-type: none"> • between the channels and backplane bus 	Yes; Optocoupler	
Isolation		
Isolation tested with	4 000 V DC	
Connection method		
required front connector	20-pin	
Dimensions		
Width	80 mm	
Height	125 mm	
Depth	117 mm	
Weights		
Weight, approx.	500 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		

[Miscellaneous](#)

[Manufacturer Declaration](#)



General Product Approval

EMV



[China RoHS](#)

[Manufacturer Declaration](#)



For use in hazardous locations

Maritime application

[EM](#)



[NK / Nippon Kaiji Kyokai](#)

Maritime application



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

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