



\*\*\*spare part\*\*\* SIMATIC S7-300, digital output SM 322, isolated 16 DO, relay contacts, 1x 20-pole

Figure similar

Supply voltage	
Load voltage L+	
• Rated value (DC)	120 V
Load voltage L1	
• Rated value (AC)	230 V
Input current	
from supply voltage L+, max.	250 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	4.5 W
Digital outputs	
Number of digital outputs	16; Relays
Short-circuit protection	No
Controlling a digital input	Yes
Size of motor starters according to NEMA, max.	Size 5 according to NEMA
Switching capacity of the outputs	
• on lamp load, max.	50 W; 230 V AC
Output current	
• for signal "1" rated value	2 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.	1 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.	1 Hz
• mechanical, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 60 °C, max.	8 A
vertical installation	
— up to 40 °C, max.	8 A
Relay outputs	
• Rated supply voltage of relay coil L+ (DC)	24 V
• Contact connection (internal)	No
• Number of operating cycles, max.	100 000; 50 000 (24 V DC, at 2 A); 700 000 (120 V AC, at 2 A); 100 000 (230 V

	AC, at 2 A)	
<b>Switching capacity of contacts</b>		
— with inductive load, max.	2 A; 2 A (230 V AC), 2 A (24 V DC)	
— with resistive load, max.	2 A; 2 A (230 V AC), 2 A (24 V DC)	
— Thermal continuous current, max.	2 A	
<b>Cable length</b>		
• shielded, max.	1 000 m	
• unshielded, max.	600 m	
<b>Interrupts/diagnostics/status information</b>		
Alarms	No	
Diagnostics function	No	
<b>Alarms</b>		
• Diagnostic alarm	No	
<b>Diagnoses</b>		
• Wire break	No	
• Short-circuit	No	
• Fuse blown	No	
• missing load voltage	No	
<b>Diagnostics indication LED</b>		
• Rated load voltage PWR (green)	No	
• Fuse OK FSG (green)	No	
• Status indicator digital output (green)	Yes	
<b>Potential separation</b>		
<b>Potential separation digital outputs</b>		
• between the channels	Yes	
• between the channels, in groups of	8	
• between the channels and backplane bus	Yes; Optocoupler	
<b>Isolation</b>		
Isolation tested with	1 500 V AC	
<b>Connection method</b>		
required front connector	20-pin	
<b>Dimensions</b>		
Width	40 mm	
Height	125 mm	
Depth	120 mm	
<b>Weights</b>		
Weight, approx.	250 g	
<b>Classifications</b>		
	<b>Version</b>	<b>Classification</b>
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
<b>Approvals / Certificates</b>		
<b>General Product Approval</b>		

[Manufacturer Declaration](#)

[Miscellaneous](#)



General Product Approval

EMV



[China RoHS](#)

[Manufacturer Declaration](#)



For use in hazardous locations

Maritime application

[EM](#)



[NK / Nippon Kaiji Kyokai](#)

Maritime application



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

last modified:

4/7/2025