



Figure similar

*** spare part *** SIMATIC S7-200, digital output EM 222, only for S7-22X CPU, 4 DQ (relay); 10 A, 5-30 V DC or 5-250 V AC

Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
• permissible range, lower limit (DC)	12 V
• permissible range, upper limit (DC)	30 V
Load voltage L1	
• Rated value (AC)	24 V; 24V AC to 230V AC
• permissible range, lower limit (AC)	12 V
• permissible range, upper limit (AC)	250 V
Input current	
from backplane bus 5 V DC, max.	30 mA
Digital outputs	
• from load voltage L+, max.	80 mA; 20 mA per switched output
Power loss	
Power loss, typ.	4 W
Digital outputs	
Number of digital outputs	4; Relays
Short-circuit protection	No
Limitation of inductive shutdown voltage to	to be provided externally (see manual package "Setting up an S7-200")
Output current	
• for signal "1" rated value	10 A
• for signal "1" permissible range for 0 to 55 °C, max.	10 A
• for signal "0" residual current, max.	0 mA
Total current of the outputs (per group)	
all mounting positions	
— up to 40 °C, max.	40 A
— Current per conductor/group, max.	10 A
horizontal installation	
— up to 55 °C, max.	20 A
Relay outputs	
• Number of operating cycles, max.	30 000 000; mechanically 30 million, at rated load voltage 30,000
Switching capacity of contacts	
— with inductive load, max.	3 A; 2 A (DC), 3 A (AC)
— on lamp load, max.	1 000 W; 100/1 000 W (DC/AC)
— with resistive load, max.	10 A
Cable length	
• shielded, max.	500 m
• unshielded, max.	150 m
Potential separation	

Potential separation digital outputs	
- Potential separation digital outputs - between the channels, in groups of	Yes; Relays 1; 4 groups
connection method	
Plug-in I/O terminals	Yes
Dimensions	
Width	45 mm
Height	80 mm
Depth	62 mm
Weights	
Weight, approx.	150 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	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates		
General Product Approval	For use in hazard-ous locations	Maritime application

[Manufacturer Declara-tion](#)



[Miscellaneous](#)

[FM](#)



Maritime application



[CCS \(China Classifica-tion Society\)](#)

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