



Figure similar

Spare part SIMATIC S7-200, Digital output EM 222, only for S7-22X CPU, 8 DA (relay outputs), 2A

Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
• permissible range, lower limit (DC)	5 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)	5 V
• permissible range, upper limit (AC)	250 V
• permissible frequency range, lower limit	47 Hz
• permissible frequency range, upper limit	63 Hz
Input current	
from backplane bus 5 V DC, max.	40 mA
Digital outputs	
• from load voltage L+, max.	72 mA; 9 mA per switched output
Power loss	
Power loss, typ.	2 W
Digital outputs	
Number of digital outputs	8; 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	2 A
• for signal "1" permissible range for 0 to 55 °C, max.	2 A
• for signal "0" residual current, max.	0 mA
Total current of the outputs (per group)	
all mounting positions	
— up to 40 °C, max.	8 A
— Current per conductor/group, max.	8 A
horizontal installation	
— up to 55 °C, max.	8 A
Relay outputs	
• Number of operating cycles, max.	10 000 000; mechanically 10 million, at rated load voltage 100 000
Switching capacity of contacts	
— with inductive load, max.	2 A
— on lamp load, max.	200 W; 30 W with DC, 200 W with AC
— with resistive load, max.	2 A
Cable length	

- shielded, max. 500 m
- unshielded, max. 150 m

Potential separation

Potential separation digital outputs	
• Potential separation digital outputs	Yes; Relays
• between the channels, in groups of	4

Connection method

Plug-in I/O terminals	Yes
-----------------------	-----

Dimensions

Width	45 mm
Height	80 mm
Depth	62 mm

Weights

Weight, approx.	170 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](#)



[Manufacturer Declaration](#)

[China RoHS](#)

For use in hazardous locations

Maritime application

[FM](#)



Maritime application



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

last modified:

8/24/2025