



SIEMENS

Data sheet

6ES7222-1HF22-0XA0

SIMATIC S7-200, DIGITAL OUTPUT EM 222, FOR S7-22X CPU ONLY, 8DO, (RELAY OUTPUTS) 2A



Figure similar

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; 24 V AC to 230 V 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
last modified:	31.07.2015