SIEMENS

Data sheet

6ES7222-1HD22-0XA0



*** 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

Figure	similar
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Supply voltage Load voltage L+ • Rated value (DC) 24 V • permissible range, lower 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, lower limit (AC) 250 V Input current 12 V from backplane bus 5 V DC, max. 30 mA Digital outputs 80 mA; 20 mA per switched output Power loss, typ. 4 W Power loss, typ. 4 W Digital outputs 4; Relays Short-Criccuit protection No Cutput current 10 A • for signal "1" rated value 10 A • for signal "1" rated value 10 A • for signal "1" rated value 0 mA • for signal "1" rated value 0 A • for signal "1" rated value 0 A • for signal "1" rated value 10 A • for signal "1" rated value 0 A • for signal "1" rated value 0 A • for signal "1" rated value 10		
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	Rated value (DC)	24 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 30 mA Digital outputs • from load voltage L+, max. • from load voltage L+, max. 80 mA; 20 mA per switched output Power loss, typ. 4 W Digital outputs • from load voltage L+, max. Number of digital outputs 4; Relays Short-circul 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" rated value 10 A • for signal "1" permissible range for 0 to 55 °C, max. 0 mA • for signal "1" permissible range for 0 to 55 °C, max. 0 mA • for signal "1" permissible range for 0 to 55 °C, max. 0 mA • for signal "1" permissible range for 0 to 55 °C, max. 0 mA • for signal "1" permissible range for 0 to 55 °C, max. 0 mA • for signal "1" permissible range for 0 to 55 °C, max. 0 mA • outputs 0 mA • outputs	 permissible range, lower limit (DC) 	12 V
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 permissible range, lower limit (AC) 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 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. for signal "1" permissible range for 0 to 55 "C, max. for signal "1" permissible range for 0 to 55 "C, max. for signal "1" permissible range for 0 to 55 "C, max. for signal "1" permissible range for 0 to 55 "C, max. for signal "1" permissible range for 0 to 55 "C, max. for signal "1" permissible range for 0 to 55 "C, max. for signal "1" permissible range for 0 to 55 "C, max. for signal "1" permissible range for 0 to 55 "C, max. for signal "1" permissible range for 0 to 55 "C, max. for signal "1" permissible range for 0 to 55 "C, max. for signal "1" permissible range, max. 0 mA — up to 40 "C, max. — up to 40 "C, max. A 0 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. 10 A Cable	Load voltage L1	
• permissible range, upper limit (AC) 250 V Input current	 Rated value (AC) 	24 V; 24V AC to 230V AC
Input current from backplane bus 5 V DC, max. 30 mA Digital outputs 80 mA; 20 mA per switched output Power loss, typ. 4 W Poigital outputs 4; Relays 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 010 A • for signal "1" rated value 10 A • for signal "1" residual current, max. 0 mA Total current of the outputs (per group) all mounting positions - up to 40 °C, max. 40 A - corrent per conductor/group, max. 10 A horizontal installation - up to 55 °C, max. • Number of operating cycles, max. 30 0000 000; mechanically 30 million, at rated load voltage 30,000 Switching capacity of contacts - with inductive load, max. - with resistive load, max. 3 A; 2 A (DC), 3 A (AC) - with resistive load, max. 10 A - with	 permissible range, lower limit (AC) 	12 V
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Digital outputs 4; Relays 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 for signal "1" permissible range for 0 to 55 °C, max. for signal "0" residual current, max. o mA Total current of the outputs (per group) all mounting positions up to 40 °C, max. A0 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. 10 0A Cable length shielded, max. S00 m 	Power loss	
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up to 55 °C, max.20 ARelay outputs• Number of operating cycles, max.30 000 000; mechanically 30 million, at rated load voltage 30,000Switching 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 ACable length• shielded, max.500 m	- Current per conductor/group, max.	10 A
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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	Relay outputs	
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	 Number of operating cycles, max. 	30 000 000; mechanically 30 million, at rated load voltage 30,000
- 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	Switching capacity of contacts	
— with resistive load, max. 10 A Cable length • shielded, max. 500 m	— with inductive load, max.	3 A; 2 A (DC), 3 A (AC)
Cable length • shielded, max. 500 m	— on lamp load, max.	1 000 W; 100/1 000 W (DC/AC)
• shielded, max. 500 m	— with resistive load, max.	10 A
	Cable length	
• unshielded, max. 150 m	 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 	1; 4 groups
connection method / header	
Plug-in I/O terminals	Yes
Dimensions	
Width	45 mm
Height	80 mm
Depth	62 mm
Weights	
Weight, approx.	150 g
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last modified:

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