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Data sheet 6ES7222-1HD22-0XA0



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

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

EG-Konf. | Miscellaneous | Manufacturer Declaration | EAC | China RoHS | Manufacturer Declaration

For use in hazardous locations

FM

Maritime application

ABS | BUREAU VERITAS | DNV | GL | LRS

Maritime application

RMRS | CCS (China Classification Society)

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