SIEMENS

Data sheet 6ES7222-1BD22-0XA0

Figure similar

*** spare part *** SIMATIC S7-200, digital output EM 222, only for S7-22X CPU, 4 DQ, 4-24 V DC; 5 A/channel source

Supply voltage	
Load voltage L+	
● Rated value (DC)	24 V
● permissible range, lower limit (DC)	20.4 V
● permissible range, upper limit (DC)	28.8 V
Input current	
from backplane bus 5 V DC, max.	40 mA
Power loss	
Power loss, typ.	3 W
Digital outputs	
Number of digital outputs	4
Short-circuit protection	No
Limitation of inductive shutdown voltage to	L+ (-48 V)
Output voltage	
● for signal "1", min.	20 V DC
Output current	
● for signal "1" rated value	5 A
● for signal "1" permissible range for 0 to 55 °C, max.	5 A
● for signal "0" residual current, max.	30 µA
Total current of the outputs (per group)	
all mounting positions	
— up to 40 °C, max.	20 A
— Current per conductor/group, max.	5 A
horizontal installation	
— up to 55 °C, max.	20 A
Relay outputs	
Switching capacity of contacts	
— with inductive load, max.	5 A
— on lamp load, max.	50 W
— with resistive load, max.	5 A
Cable length	
● shielded, max.	500 m
● unshielded, max.	150 m
Potential separation	
Potential separation digital outputs	
● Potential separation digital outputs	Yes
● between the channels, in groups of	1
Isolation	

© Copyright Modulplc

Isolation tested with	500 V AC
Connection method	
Plug-in I/O terminals	Yes
Dimensions	
Width	45 mm
Height	80 mm
Depth	62 mm
Weights	
Weight, approx.	120 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

Manufacturer Declaration | Miscellaneous | China RoHS | Manufacturer Declaration

For use in hazardous locations

FM

Maritime application

Maritime application

CCS (China Classification Society)

last modified: 8/24/2025

© Copyright Modulplc