



SIMATIC S7-200, DIGITAL OUTPUT EM 222,
FOR S7-22X CPU ONLY, 8DQ, 24 V DC,

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.	50 mA
Power losses	
Power loss, typ.	2 W
Digital outputs	
Number/binary outputs	8
Functionality/short-circuit strength	No ; to be provided externally (see manual package "Setting up an S7-200")
Limitation of inductive shutdown voltage to	L+ (-48 V)
Output voltage	
for signal "1", min.	20 V
Output current	
for signal "1" permissible range for 0 to 40 °C, max.	750 mA
for signal "1" permissible range for 0 to 55 °C, max.	750 mA

for signal "0" residual current, max.	10 µA
Parallel switching of 2 outputs	
for increased power	Yes
Aggregate current of outputs (per group)	
all mounting positions	
up to 40 °C, max.	3 A
maximum current per conductor/group	3 A
horizontal installation	
up to 55 °C, max.	3 A
Relay outputs	
Switching capacity of contacts	
with inductive load, max.	0.75 A
on lamp load, max.	5 W
Switching frequency/contacts/at ohmic load/maximum	0.75 A
Cable length	
Cable length, shielded, max.	500 m
Cable length unshielded, max.	150 m
Galvanic isolation	
Galvanic isolation digital outputs	
Galvanic isolation digital outputs	Yes ; Optocoupler
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
Weight	
Weight, approx.	150 g
Status	Jul 10, 2013