



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

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 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 losses	
Power loss, typ.	2 W
Digital outputs	

Number/binary outputs	8 ; Relay
Functionality/short-circuit strength	No ; to be provided externally (see manual package "Setting up an S7-200")
Limitation of inductive shutdown voltage to	to be provided externally (see manual package "Setting up an S7-200")
Output current	
for signal "1" permissible range for 0 to 40 °C, max.	2 A
for signal "1" permissible range for 0 to 55 °C, max.	2 A
for signal "0" residual current, max.	0 mA
Aggregate current of outputs (per group)	
all mounting positions	
up to 40 °C, max.	8 A
maximum current per conductor/group	8 A
horizontal installation	
up to 55 °C, max.	8 A
Relay outputs	
Number of operating cycles, max.	10000000 ; 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
Switching frequency/contacts/at ohmic load/maximum	2 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 ; Relay
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.	170 g
Status	Feb 25, 2013