SIEMENS

Data sheet

6ES7222-1BH32-0XB0



SIMATIC S7-1200, Digital output SM 1222, 16 DO, 24 V DC, transistor 0.5 A $\,$

General information		
Product type designation	SM 1222, DQ 16x24 V DC/0.5 A	
Supply voltage		
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.	140 mA	
Power loss		
Power loss, typ.	2.5 W	
Digital outputs		
Number of digital outputs	16	
• in groups of	1	
Short-circuit protection	No; to be provided externally	
Limitation of inductive shutdown voltage to	typ. (L+) -48 V	
Switching capacity of the outputs		
 with resistive load, max. 	0.5 A	
● on lamp load, max.	5 W	
Output voltage		
Rated value (DC)	24 V	
● for signal "0", max.	0.1 V; with 10 kOhm load	
• for signal "1", min.	20 V DC	
Output current		
◆ for signal "1" rated value	0.5 A	
for signal "0" residual current, max.	10 μΑ	
Output delay with resistive load		
• "0" to "1", max.	50 μs	
• "1" to "0", max.	200 μs	
Total current of the outputs (per group)		
horizontal installation		
— up to 50 °C, max.	8 A; Current per mass	
Relay outputs		
Switching capacity of contacts	0.5 A	
— with inductive load, max.— on lamp load, max.	5 W	
— with resistive load, max.	0.5 A	
Cable length	0.071	
• shielded, max.	500 m	
- officially, max.		

• unshielded, max.	150 m	
Interrupts/diagnostics/status information		
Alarms		
Diagnostic alarm	Yes	
Diagnostics indication LED	100	
for status of the outputs	Yes	
Potential separation	100	
Potential separation digital outputs		
between the channels, in groups of	1	
between the channels and backplane bus	500 V AC	
Standards, approvals, certificates	300 V AC	
	Vec	
CE mark	Yes	
CSA approval	Yes	
UL approval	Yes	
CULus EM energyel	Yes	
FM approval	Yes	
RCM (formerly C-TICK)	Yes	
KC approval	Yes	
Marine approval	Yes	
Ambient conditions		
Free fall		
• Fall height, max.	0.3 m; five times, in product package	
Ambient temperature during operation		
• min.	-20 °C	
• max.	60 °C	
 horizontal installation, min. 	-20 °C	
 horizontal installation, max. 	60 °C	
 vertical installation, min. 	-20 °C	
 vertical installation, max. 	50 °C	
permissible temperature change	5°C to 55°C, 3°C / minute	
Ambient temperature during storage/transportation		
• min.	-40 °C	
• max.	70 °C	
Air pressure acc. to IEC 60068-2-13		
Storage/transport, min.	660 hPa	
Storage/transport, max.	1 080 hPa	
Relative humidity	0.5.07	
 Operation at 25 ℃ without condensation, max. 	95 %	
Connection method		
required front connector	Yes	
Mechanics/material		
Enclosure material (front)		
Plastic	Yes	
Dimensions		
Width	45 mm	
Height	100 mm	
Depth	75 mm	
Weights		
Weight, approx.	220 g	
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