Data sheet

6ES7222-1BH32-1XB0



SIMATIC S7-1200, Digital output SM 1222, 16 DO, 24 V DC, sourcing (Sinking Output), NPN transistor 0.5 A $\,$

General information	
Product type designation	SM 1222, DO 16x 24 V DC/0.5 A Sink
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
Current-sinking	Yes
Short-circuit protection	No; to be provided externally
Limitation of inductive shutdown voltage to	Typ 45 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.	L+ minus 0.75 V DC with 10k Load
• for signal "1", min.	0,5 V
Output current	
for signal "1" rated value	0.5 A
for signal "0" residual current, max.	75 μA
Output delay with resistive load	
• "0" to "1", max.	20 μs
• "1" to "0", max.	350 μs
Total current of the outputs (per group)	
horizontal installation	
— up to 50 °C, max.	8 A; Current per mass
Cable length	
shielded, max.	500 m
• unshielded, max.	150 m
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes
Diagnostics indication LED	
for status of the outputs	Yes
Potential separation	

Potential separation digital outputs • between the channels, in groups of • between the channels and backplane bus 500 V AC Degree and class of protection IP degree of protection IP20
between the channels and backplane bus 500 V AC Degree and class of protection
Degree and class of protection
ii degree of protection
Standards, approvals, certificates
CE mark Yes
CSA approval Yes
UL approval Yes
CULus Yes
FM approval Yes
RCM (formerly C-TICK) Yes
KC approval Yes
Marine approval Yes
Ambient conditions
Ambient temperature during operation
● min20 °C
• max. 60 °C
• horizontal installation, min20 °C
• horizontal installation, max. 60 °C
• vertical installation, min20 °C
• vertical installation, max. 50 °C
• permissible temperature change 5°C to 55°C, 3°C / minute
Ambient temperature during storage/transportation
● min40 °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
• Operation at 25 °C 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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