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6ES7222-1HH30-0XB0 DIGITAL OUTPUT SM1222, 16 DO, RELAY

Technical / CAx data	
Technical Data	
SIMATIC S7-1200, DIGITAL OUTPUT SM 12	222, 16 DO, RELAY 2A
Supply voltages	•
Rated value	
permissible range, lower limit (DC)	5 V
permissible range, upper limit (DC)	30 V
Current consumption	
from backplane bus 5 V DC, max.	135 mA
Power losses	
Power loss, typ.	8.5 W
Connection method	
required front connector	Yes
Digital inputs	
Number of inputs	0
Digital outputs	
Number of digital outputs	16
in groups of	1
Short-circuit protection of the output	No; to be provided externally
Switching capacity of the outputs	
with resistive load, max.	2 A
on lamp load, max.	30 W DC; 200 W AC
Output voltage	
Rated value (AC)	5 to 250 VAC
Rated value (DC)	5 to 30 VDC
Output current	
for signal "1" permissible range, max.	2 A
Output delay with resistive load	
0 to "1", max.	10 ms
1 to "0", max.	10 ms
Aggregate current of outputs (per group)	
horizontal installation	
up to 50 °C, max.	10 A; Current per common
Cable length	
Cable length, shielded, max.	500 m
Cable length unshielded, max.	150 m
Relay outputs	
Number of relay outputs	16
Rated input voltage of relay L+ (DC)	24 V
Number of operating cycles	mechanically 10 million, at rated load voltage 100,000
Switching capacity of contacts	
with inductive load, max.	2 A
on lamp load, max.	30 W DC; 200 W AC

with resistive load, max.	2 A
Interrupts/diagnostics/status information	
Alarms	
Alarms	Yes
Diagnostic alarm	Yes
Diagnoses	
Diagnostic functions	Yes
Diagnostics indication LED	
	Yes
for maintenance	Yes
Status indicator digital output (green)	Yes
Galvanic isolation	
Galvanic isolation digital outputs	
between the channels	Relay, dry contact
between the channels, in groups of	4
between the channels and the backplane bus	1500 VAC for 1 minute (
Permissible potential difference	
between different circuits	750 V AC for 1 minute
Climatic and mechanical conditions for storage	
and transport	
Climatic conditions for storage and transport	
Free fall	
Drop height, max. (in packaging)	0.3 m
Temperature	
Permissible temperature range	-40 °C to +70 °C
Air pressure acc. to IEC 60068-2-13	
Permissible air pressure	1080 to 660 hPa
Relative humidity	
Permissible range (without condensation) at 25 °C	95%
Degree of protection	
IP20	Yes
Standards, approvals, certificates	
CE mark	Yes
C-TICK	Yes
FM approval	Yes
Mechanics	
Plastic	Yes
Dimensions and weight	
Dimensions	
Width	45 mm
Height	100 mm
Depth	75 mm
Weight	
Weight, approx.	260 g Jan 17, 2011
Status	

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