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**Product data sheet**
**6ES7222-1HH30-0XB0**


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**SIMATIC S7-1200, DIGITAL OUTPUT SM 1222, 16 DO, RELAY 2A**
**Supply voltages**
**Rated value**

permissible range, lower limit (DC)	5 V
permissible range, upper limit (DC)	30 V
Short-circuit protection	0.0000000000000000E+00

**Current consumption**

from backplane bus DC 5 V, max.	135 mA
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**Digital inputs**

from load voltage L+ (without load), max.	11 mA / relay coil used
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**Current consumption/power loss**

Power loss, typ.	8.5 W
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**Connection point**

required front connectors	Yes
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**Digital inputs**

Number of digital inputs	0
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**Digital outputs**

Number of digital outputs	16
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Short-circuit protection of the output	No ; to be provided externally
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**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
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Rated value (DC)	5 to 30 VDC
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**Output current**

for signal "1" permissible range, max.	2 A
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**Output delay with resistive load**

"0" to "1", max.	10 ms
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"1" to "0", max.	10 ms
Aggregate current of the 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 the 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
Monitoring the voltage supply to the electronics	Yes
Diagnostics indication LED	
Status indicator digital output (green)	Yes
Isolation	
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 VAC for 1 minute
Degree of protection	
IP 20	Yes
Standards, approvals, certificates	
CE symbol	Yes

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C-TICK	Yes
FM approval	Yes
Mechanics	
Plastic	Yes
Dimensions and weight	
Dimensions and weight	
Width	45 mm
Height	100 mm
Depth	75 mm
Weight	
Weight, approx.	260 g
Status	Aug 31, 2009