

# SIEMENS

## Product data sheet

**6ES7222-1BF30-0XB0**


SIMATIC S7-1200,  
DIGITAL OUTPUT SM 1222, 8 DO, 24V DC,  
TRANSISTOR 0.5A

<b>Supply voltage</b>	
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
<b>Input current</b>	
from backplane bus 5 V DC, max.	120 mA
<b>Power losses</b>	
Power loss, typ.	1.5 W
<b>Digital inputs</b>	
Number/binary inputs	0
<b>Digital outputs</b>	
Number/binary outputs	8
In groups of	1
Functionality/short-circuit strength	No ; to be provided externally
Limitation of inductive shutdown voltage to	typ. (L+) -48 V
<b>Switching capacity of the outputs</b>	

with resistive load, max.	0.5 A
on lamp load, max.	5 W
<b>Output voltage</b>	
Rated value (DC)	24 V
for signal "0", max.	0.1 V ; with 10 kOhm load
for signal "1", min.	20 V DC
<b>Output current</b>	
for signal "1" rated value	0.5 A
for signal "0" residual current, max.	10 µA
<b>Output delay with resistive load</b>	
"0" to "1", max.	50 µs
"1" to "0", max.	200 µs
<b>Aggregate current of outputs (per group)</b>	
horizontal installation	
up to 50 °C, max.	4 A ; Current per mass
<b>Relay outputs</b>	
<b>Switching capacity of contacts</b>	
with inductive load, max.	0.5 A
on lamp load, max.	5 W
Switching frequency/contacts/at ohmic load/maximum	0.5 A
<b>Cable length</b>	
Cable length, shielded, max.	500 m
Cable length unshielded, max.	150 m
<b>Interrupts/diagnostics/status information</b>	
<b>Alarms</b>	
Alarms	Yes
Diagnostic alarm	Yes
<b>Diagnostic messages</b>	
Diagnostic functions	Yes
<b>Diagnostics indication LED</b>	
For status of the outputs	Yes
for maintenance	Yes
Status indicator digital output (green)	Yes

Galvanic isolation	
Galvanic isolation digital outputs	
between the channels, in groups of	1
between the channels and the backplane bus	500 V AC
Degree and class of protection	
IP20	Yes
Standards, approvals, certificates	
CE mark	Yes
C-TICK	Yes
FM approval	Yes
Climatic and mechanical conditions for storage and transport	
Climatic conditions for storage and transport	
Free fall	
Drop height, max. (in packaging)	0.3 m ; five times, in dispatch package
Temperature	
Permissible temperature range	-40 °C to +70 °C
Air pressure acc. to IEC 60068-2-13	
Permissible air pressure	1080 to 660 hPa
Mechanical and climatic conditions during operation	
Climatic conditions in operation	
Temperature	
Permissible temperature range	0 °C to 55 °C horizontal installation 0 °C to 45 °C vertical installation
Permissible temperature change	5°C to 55°C, 3°C / minute
Connection method	
required front connector	Yes
Mechanics/material	
Type of housing (front)	
Plastic	Yes
Dimensions	
Width	45 mm
Height	100 mm
Depth	75 mm
Weight	

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Weight, approx.	180 g
Status	Jul 17, 2012