## **SIEMENS**

## **Data sheet**

6ES7222-5HH50-0XB0



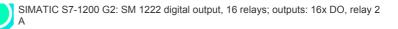




Figure similar

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General information		
Product type designation	SM 1222, DQ 16x relay/2 A	
Supply voltage		
Rated value (DC)	24 V	
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.	115 mA	
Digital outputs		
<ul> <li>from load voltage L+, max.</li> </ul>	9 mA; per relay coil	
Power loss		
Power loss, typ.	4.2 W	
Digital outputs		
Number of digital outputs	16	
<ul><li>in groups of</li></ul>	8	
Short-circuit protection	No; to be provided externally	
Switching capacity of the outputs		
<ul> <li>with resistive load, max.</li> </ul>	2 A	
• on lamp load, max.	30 W with DC, 200 W with AC	
Output voltage		
<ul> <li>Rated value (DC)</li> </ul>	5 V DC to 30 V DC	
Rated value (AC)	5 V AC to 250 V AC	
Output current		
for signal "1" rated value	2 A	
Output delay with resistive load		
• "0" to "1", max.	10 ms	
• "1" to "0", max.	10 ms	
Total current of the outputs (per group)		
horizontal installation		
— up to 50 °C, max.	16 A; Current per mass	
Relay outputs		
<ul> <li>Number of relay outputs</li> </ul>	16	
<ul> <li>Rated supply voltage of relay coil L+ (DC)</li> </ul>	24 V	
<ul> <li>Number of operating cycles, max.</li> </ul>	mechanically 10 million, at rated load voltage 100 000	
Switching capacity of contacts		
<ul><li>— with inductive load, max.</li></ul>	2 A	

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— on lamp load, max.	30 W with DC, 200 W with AC	
— with resistive load, max.	2 A	
Cable length		
• shielded, max.	500 m	
• unshielded, max.	150 m	
Interrupts/diagnostics/status information		
Diagnostics function	Yes	
Alarms		
Diagnostic alarm	Yes	
Diagnoses		
Monitoring the supply voltage	Yes	
Diagnostics indication LED		
DIAG LED	Yes	
for status of the outputs	Yes	
Potential separation		
Potential separation digital outputs		
<ul> <li>between the channels</li> </ul>	Relays	
<ul> <li>between the channels, in groups of</li> </ul>	8	
<ul> <li>between the channels and backplane bus</li> </ul>	Yes; 1500 V AC (type test)	
Degree and class of protection		
IP degree of protection	IP20	
Standards, approvals, certificates		
Siemens Eco Profile (SEP)	Siemens EcoTech	
CE mark	Yes	
CSA approval	No	
UL approval	Yes	
cULus	Yes	
FM approval	No	
RCM (formerly C-TICK)	Yes	
KC approval	No	
Marine approval	No	
Ecological footprint		
environmental product declaration	Yes; type 2 acc. to ISO 14021	
Global warming potential	100, type 2 doc. to 100 11021	
global warming potential, (total) [CO2 eq]	40.3 kg	
— global warming potential, (during production) [CO2	7.79 kg	
eq]	7.73 kg	
<ul> <li>— global warming potential, (during operation) [CO2 eq]</li> </ul>	32.5 kg	
— global warming potential, (after end of life cycle) [CO2 eq]	-0.089 kg	
Ambient conditions		
Free fall		
• Fall height, max.	0.3 m; five times, in product package	
Ambient temperature during operation	o.o,o timoo, in product paolitage	
• min.	-20 °C; No condensation	
	40 °C; at max. voltages and max. specifications	
Max.     A horizontal installation, min	-20 °C; No condensation	
horizontal installation, min.		
horizontal installation, max.      vertical installation, min.	60 °C; at rated voltages, 50 % of max. specification and alternate IO active	
vertical installation, min.	-20 °C; No condensation	
vertical installation, max.      permissible temperature change.	50 °C; at rated voltages, 50 % of max. specification and alternate IO active	
permissible temperature change  Ambient temperature during attraces transportation	5°C to 55°C, 3°C / minute	
Ambient temperature during storage/transportation	40.00	
• min.	-40 °C	
• max.	70 °C	
Air pressure acc. to IEC 60068-2-13	540 LD-	
Operation, min.	540 hPa	
<ul><li>Operation, max.</li></ul>	1 140 hPa	
Storage/transport, min.	540 hPa	
<ul> <li>Storage/transport, min.</li> <li>Storage/transport, max.</li> </ul> Altitude during operation relating to sea level	540 hPa 1 140 hPa	

<ul> <li>Installation altitude, min.</li> </ul>	-1 000 m	
Installation altitude, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual	
Relative humidity		
<ul> <li>Operation at 25 °C without condensation, max.</li> </ul>	95 %	
Vibrations		
<ul> <li>Vibration resistance during operation acc. to IEC 60068- 2-6</li> </ul>	3.5 mm from 5 - 8.4 Hz, 1g from 8.4 - 150 Hz	
<ul> <li>Operation, tested according to IEC 60068-2-6</li> </ul>	Yes	
Shock testing		
• tested according to IEC 60068-2-27	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms	
Pollutant concentrations		
<ul> <li>SO2 at RH &lt; 60% without condensation</li> </ul>	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60 % condensation-free	
connection method		
required front connector	No	
Mechanics/material		
Enclosure material (front)		
<ul><li>Plastic</li></ul>	Yes	
Dimensions		
Width	30 mm	
Height	125 mm	
Depth	100 mm	
Weights		
Weight, approx.	217 g	
Classifications		

	Version	Classification
eClass	14	27-24-22-04
eClass	12	27-24-22-04
eClass	9.1	27-24-22-04
eClass	9	27-24-22-04
eClass	8	27-24-22-04
eClass	7.1	27-24-22-04
eClass	6	27-24-22-04
ETIM	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419

Approvals / Certificates

General Product Approval





<u>KC</u>

Miscellaneous



<u>KC</u>

For use in hazardous locations

**Test Certificates** 

Environment







CCC-Ex

Type Test Certificates/Test Report



Environment



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