

Spare part SIPLUS S7-1200 SM 1222 8RLY -25...+70 °C with conformal coating based on 6ES7222-1HF30-0XB0 . Digital output 8 DO, relay 2 A

General information

Product type designation SM 1222, DQ 8x relay/2 A

Supply voltage

permissible range, lower limit (DC) 5 V
permissible range, upper limit (DC) 30 V

Input current

from backplane bus 5 V DC, max. 120 mA

Digital outputs

- from load voltage L+, max. 11 mA/relay coil

Power loss

Power loss, typ. 4.5 W

Digital outputs

Number of digital outputs 8

- in groups of 2

Short-circuit protection No; to be provided externally

Switching capacity of the outputs

- with resistive load, max. 2 A
- on lamp load, max. 30 W with DC, 200 W with AC

Output voltage

- Rated value (DC) 5 V DC to 30 V DC
- Rated value (AC) 5 V AC to 250 V AC

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

Total current of the outputs (per group)

horizontal installation
 — up to 50 °C, max. 10 A; Current per mass

Relay outputs

- Number of relay outputs 8
- Rated supply voltage of relay coil L+ (DC) 24 V
- Number of operating cycles, max. 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 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	
Alarms	Yes
Diagnostic functions	Yes
Alarms	
• Diagnostic alarm	Yes
Diagnostics indication LED	
• for status of the outputs	Yes
• for maintenance	Yes
Potential separation	
Potential separation digital outputs	
• between the channels	Relays
• between the channels, in groups of	2
• between the channels and backplane bus	1500 V AC for 1 minute
Permissible potential difference	
between different circuits	750 V AC for 1 minute
Degree and class of protection	
Degree of protection acc. to EN 60529	
• IP20	Yes
Standards, approvals, certificates	
CE mark	Yes
FM approval	Yes
Ambient conditions	
Free fall	
• Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	-25 °C; = Tmin
• max.	70 °C; = Tmax
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Altitude during operation relating to sea level	

<ul style="list-style-type: none"> • Ambient air temperature-barometric pressure-altitude 	<p>Tmin ... Tmax at 1 080 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)</p>
Relative humidity	
<ul style="list-style-type: none"> • With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state)
Resistance	
Use in stationary industrial systems	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation!
— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
Connection method	
required front connector	Yes
Mechanics/material	
Enclosure material (front)	
<ul style="list-style-type: none"> • Plastic 	Yes
Dimensions	
Width	45 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	190 g
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