## **SIEMENS**

## Data sheet

6AG1422-1BL00-2AA0

SIPLUS S7-400 SM 422 32DO -25...+60°C based on 6ES7422-1BL00-0AA0



Supply voltage		
Load voltage L+		
Rated value (DC)	24 V	
<ul> <li>permissible range, lower limit (DC)</li> </ul>	20.4 V	
• permissible range, upper limit (DC)	28.8 V	
Input current		
from load voltage L+ (without load), max.	30 mA	
from backplane bus 5 V DC, max.	200 mA	
Power loss		
Power loss, typ.	4 W	
Digital outputs		
Number of digital outputs	32	
Limitation of inductive shutdown voltage to	-27 V	
Switching capacity of the outputs		
• on lamp load, max.	5 W	
Output voltage		
● for signal "1", min.	L+ (-0.3 V)	

Output current			
• for signal "1" rated value	0.5 A		
• for signal "1" permissible range, min.	5 mA		
• for signal "1" permissible range, max.	0.6 A		
• for signal "0" residual current, max.	0.3 mA		
Switching frequency			
with resistive load, max.	100 Hz		
with inductive load, max.	0.5 Hz		
Total current of the outputs (per group)	0.0.12		
all mounting positions			
— up to 60 °C, max.	2 A; 8 adjacent outputs each		
Cable length	27, 6 dajacom carpate cach		
• shielded, max.	1 000 m		
• unshielded, max.	600 m		
unsilielded, max.	000 111		
Interrupts/diagnostics/status information			
Diagnostics function	No		
Potential separation			
Potential separation digital outputs			
<ul> <li>between the channels, in groups of</li> </ul>	32		
<ul> <li>between the channels and backplane bus</li> </ul>	Yes		
Isolation			
Isolation tested with	500 V DC		
Ambient conditions			
Ambient temperature during operation			
• min.	-25 °C; = Tmin		
● max.	60 °C; = Tmax		
Ambient temperature during storage/transportation			
• min.	-40 °C		
• max.	70 °C		
Altitude during operation relating to sea level			
Installation altitude above sea level, max.	5 000 m		
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) //		
altitude	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)		
Relative humidity			
With condensation, tested in accordance with	100 %; RH incl. condensation/frost (no commissioning under		
150 00000 0 00	condensation conditions)		
IEC 60068-2-38, max.			
Resistance			

	— 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
	<ul> <li>to chemically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$
	<ul> <li>to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust, *
	Use on ships/at sea	
	<ul> <li>to biologically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
	<ul> <li>to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$
	<ul> <li>to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *
	Remark	
	<ul> <li>Note regarding classification of environmental conditions acc. to EN 60721</li> </ul>	* The supplied plug covers must remain in place over the unused interfaces during operation!
	Conformal coating	
	<ul> <li>Coatings for printed circuit board assemblies acc. to EN 61086</li> </ul>	Yes; Class 2 for high availability
	<ul> <li>Military testing according to MIL-I-46058C,</li> <li>Amendment 7</li> </ul>	Yes; Discoloration of coating possible during service life
	<ul> <li>Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A</li> </ul>	Yes; Conformal coating, Class A
	Dimensions	
•	Width	25 mm
	Height	290 mm
	Depth	210 mm

600 g

12/25/2018

Weights

Weight, approx.

last modified: