## **SIEMENS**

## Data sheet

## 6AG1526-2BF00-2AB0



SIPLUS S7-1500 F-DQ 8x24VDC/2A -25 ... +60°C WITH CONFORMAL COATING BASEDON: 6ES7526-2BF00-0AB0 . FAILSAFE DIGITAL OUTPUT MODULE F-DQ 8X24VDC 2A PPM PROFISAFE; 35 MM WIDTH; UP TO PL E (ISO 13849-1)/ SIL3 (IEC 61508)

General information	
Product type designation	F-DQ 8x24VDC/2A PPM
Firmware version	
<ul> <li>FW update possible</li> </ul>	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
Operating mode	
• DQ	Yes
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Input current	
Current consumption (rated value)	110 mA; without load
Output voltage	
Rated value (DC)	24 V

Power	
Power available from the backplane bus	0.8 W
Power loss	11 W
Power loss, typ.	11 VV
Address area	
Address space per module	
<ul> <li>Address space per module, max.</li> </ul>	6 byte
Hardware configuration	
Automatic encoding	Yes
<ul> <li>Electronic coding element type F</li> </ul>	Yes
Digital outputs Number of digital outputs	8
Current-sinking	o Yes
Current-sourcing	Yes
Short-circuit protection	Yes
Open-circuit detection	Yes
Response threshold, typ.	8 mA
Overload protection	Yes
Response threshold, typ.	2.9 A
Limitation of inductive shutdown voltage to	PM-switching: -24 V + (-47 V), PP-switching: -24 V
Switching capacity of the outputs	- M-Switching2+ V - (-+7 V), + 1 -Switching2+ V
with resistive load, max.	2 A
<ul> <li>on lamp load, max.</li> </ul>	10 W
Load resistance range	
lower limit	12 Ω
upper limit	2 000 Ω
Output voltage	2 000 52
	24 V; L+ (-0.5 V)
<ul> <li>for signal "1", min.</li> <li>Output current</li> </ul>	24 V, L, (-0.5 V)
	2 A
<ul> <li>for signal "1" rated value</li> <li>for signal "0" residual current, max.</li> </ul>	0.5 mA; Current-sourcing, or current sourcing and sinking
• lor signar o residual current, max.	switches individually, current sinking: max. 1 mA
Switching frequency	
with resistive load, max.	30 Hz
• with inductive load, max.	0.1 Hz
• on lamp load, max.	10 Hz
Total current of the outputs	
Current per channel, max.	2 A
Total current of the outputs (per module)	
horizontal installation	
— up to 40 °C, max.	16 A

— up to 60 °C, max.	8 A
vertical installation	
— up to 40 °C, max.	8 A
Cable length	
<ul> <li>shielded, max.</li> </ul>	1 000 m
• unshielded, max.	500 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	No
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
<ul> <li>Monitoring the supply voltage</li> </ul>	Yes
• Wire-break	Yes
Short-circuit	Yes
Group error	Yes
Diagnostics indication LED	
• RUN LED	Yes; Green LED
• ERROR LED	Yes; Red LED
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	Yes
<ul> <li>Channel status display</li> </ul>	Yes; Green LED
<ul> <li>for channel diagnostics</li> </ul>	Yes; Red LED
<ul> <li>for module diagnostics</li> </ul>	Yes; Red LED
Potential separation	
Potential separation channels	
between the channels	No
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	$25^{\circ}$ C = Tmin
horizontal installation, min.	-25 °C; = Tmin
horizontal installation, max.	60 °C; = Tmax
Altitude during operation based on sea level	Train Trans at 1000 kDa 705 kDa ( 1000 m 10000 m)
<ul> <li>Ambient air temperature-barometric pressure- altitude</li> </ul>	Tmin Tmax at 1080 hPa 795 hPa (-1000 m +2000 m)
Relative humidity	
• With condensation, tested in accordance with	100 %; RH incl. condensation/frost (no commissioning under
IEC 60068-2-38, max.	condensation conditions)
Resistance	
Use in stationary industrial systems	

- to biologically active substances according to EN 60721-3-3

- to chemically active substances according to EN 60721-3-3

— to mechanically 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

Yes; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!

Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

Dimensions		
Width	35 mm	
Height	147 mm	
Depth	129 mm	
last modified:	10/13/2017	