SIEMENS

Data sheet

6AG1526-2BF00-2AB0



SIPLUS S7-1500 F-DQ 8x24VDC/2A based on 6ES7526-2BF00-0AB0 with conformal coating, -30...+60 °C, F digital output module, 35 mm overall width; up to PL E (ISO 13849-1)/ SIL3 (IEC 61508)

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General information	
Product type designation	F-DQ 8x24VDC/2A PPM
Firmware version	
FW update possible	Yes
based on	6ES7526-2BF00-0AB0
Product function	
● I&M data	Yes; I&M0 to I&M3
Engineering with	
STEP 7 TIA Portal configurable/integrated from version	see entry ID: 109746275
Operating mode	
• DQ	Yes
• MSO	No
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
power supply according to NEC Class 2 required	No
Input current	
Current consumption (rated value)	110 mA; without load
Current consumption, max.	130 mA; without load
output voltage / header	
Rated value (DC)	24 V
Power	
Power available from the backplane bus	0.8 W
Power loss	
Power loss, typ.	11 W
Address area	
Address space per module	
• Inputs	6 byte; S7-300/400F CPU, 5 byte
Outputs	6 byte; S7-300/400F CPU, 5 byte
Hardware configuration	
Automatic encoding	Yes
Electronic coding element type F	Yes
Digital outputs	
Number of digital outputs	8
Current-sinking	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
Controlling a digital input	Yes; digital output, according to IEC 61131-2, type 2
Switching capacity of the outputs	
with resistive load, max.	2 A
• on lamp load, max.	10 W
Load resistance range	
• lower limit	12 Ω
• upper limit	2 000 Ω
Output voltage	
• for signal "1", min.	24 V; L+ (-0.5 V)
Output current	
● for signal "1" rated value	2 A
• for signal "0" residual current, max.	0.5 mA; Current-sourcing, or current sourcing and sinking 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	
shielded, max.	1 000 m
• unshielded, max.	500 m
Interrupts/diagnostics/status information	<u> </u>
Diagnostics function	Yes
Substitute values connectable	No
Alarms	
Diagnostic alarm	Yes
Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	Yes
Short-circuit	Yes
• Group error	Yes
Diagnostics indication LED	V 150
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
Monitoring of the supply voltage (PWR-LED)	Yes
Channel status display	Yes; green LED
for channel diagnostics for module diagnostics	Yes; red LED
for module diagnostics Potential congretion	Yes; red LED
Potential separation	
Potential separation channels	Ne
between the channels between the channels and backglane bus	No Yea
between the channels and backplane bus Isolation	Yes
Isolation	707 \ \ DC (hung toot)
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	V
Suitable for safety functions	Yes
Highest safety class achievable in safety mode	Di .
Performance level according to ISO 13849-1 SIL cost to IEC 61508	PLe Su 2
SIL acc. to IEC 61508 Probability of failure (for copying life of 20 years and repair tip	SIL 3
Probability of failure (for service life of 20 years and repair time of 100 hours)	

< 6.00E-05 - Low demand mode: PFDavg in accordance with SIL3 - High demand/continuous mode: PFH in accordance < 2.00E-09 1/h with SIL3 **Ambient conditions** Ambient temperature during operation -30 °C; = Tmin (incl. condensation/frost) · horizontal installation, min. horizontal installation max 60 °C · = Tmax · vertical installation, min. -30 °C; = Tmin · vertical installation, max. 40 °C; = Tmax Altitude during operation relating to sea level • Installation altitude above sea level, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual Relative humidity • With condensation, tested in accordance with IEC 60068-100 %; RH incl. condensation/frost (no commissioning under condensation 2-38, max conditions) Resistance Coolants and lubricants - Resistant to commercially available coolants and Yes; Incl. diesel and oil droplets in the air lubricants Use in stationary industrial systems Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); - to biologically active substances according to EN Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity - to chemically active substances according to EN 60721-3-3 degree 3); - to mechanically active substances according to EN Yes; Class 3S4 incl. sand, dust, * 60721-3-3 Use on ships/at sea - to biologically active substances according to EN Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity - to chemically active substances according to EN 60721-3-6 degree 3); 3 — to mechanically active substances according to EN Yes; Class 6S3 incl. sand, dust; * 60721-3-6 Usage in industrial process technology - Against chemically active substances acc. to EN Yes; Class 3 (excluding trichlorethylene) 60654-4 Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 LC3 (salt spray) and level LB3 (oil) Remark - Note regarding classification of environmental * The supplied plug covers must remain in place over the unused interfaces conditions acc. to EN 60721, EN 60654-4 and during operation! ANSI/ISA-71.04 Conformal coating . Coatings for printed circuit board assemblies acc. to EN Yes; Class 2 for high reliability Yes; Type 1 protection Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 Yes; Discoloration of coating possible during service life • Qualification and Performance of Electrical Insulating Yes; Conformal coating, Class A Compound for Printed Board Assemblies according to IPC-CC-830A Width 35 mm 147 mm Height Depth 129 mm Veights 300 g Weight, approx.

last modified:

