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Data sheet 6ES7326-2BF01-0AB0

	Spare part SIMATIC S7, Digital output SM 326, 10 DO, 24 V DC, 2A, fail-safe digital output for SIMATIC S7F systems, with diagnostic alarm, 1x 40-pole
Supply voltage	
Rated value (DC)	24 V; 1L+
Reverse polarity protection	Yes
Load voltage L+	
● Rated value (DC)	24 V; 2L+, 3L+
● Reverse polarity protection	No
Input current	
from supply voltage 1L+, max.	70 mA
from load voltage 2L+ (without load), max.	100 mA
from load voltage 3L+ (without load), max.	100 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	12 W
Digital outputs	
Number of digital outputs	10
Short-circuit protection	Yes
Limitation of inductive shutdown voltage to	L+ (-53 V) without series diode, L+ (-33 V) with series diode
Switching capacity of the outputs	
● on lamp load, max.	5 W
Output voltage	
● for signal "1", min.	L+ (-1 V) without series diode, L+ (-1.8 V) with series diode
Output current	
● for signal "1" rated value	2 A
● for signal "1" permissible range for 0 to 40 °C, min.	7 mA
● for signal "1" permissible range for 0 to 40 °C, max.	2 A; 2 A for horizontal installation, 1 A for vertical installation
● for signal "1" permissible range for 40 to 60 °C, min.	7 mA
● for signal "1" permissible range for 40 to 60 °C, max.	1 A; for horizontal installation
● for signal "0" residual current, max.	0.5 mA
Switching frequency	
● with resistive load, max.	10 Hz
● with inductive load, max.	2 Hz
● on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	7.5 A; without series diode, 5 A with series diode
— up to 60 °C, max.	5 A; without series diode, 4 A with series diode
vertical installation	
— up to 40 °C, max.	5 A; without series diode, 4 A with series diode
Cable length	
● shielded, max.	1 000 m; 200 m for SIL 3, AK 6, Cat 4
● unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	
● Diagnostic alarm	Yes
Diagnoses	
● Diagnostic information readable	Yes
Diagnostics indication LED	
● Fail-safe operation	Yes
● Group error SF (red)	Yes

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Potential separation	
Potential separation digital outputs	
● between the channels	Yes
● between the channels, in groups of	5
● between the channels and backplane bus	Yes
● between the channels and the power supply of the electronics	Yes
Isolation	
Isolation tested with	500 V DC/350 V AC
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
● acc. to DIN VDE 0801	AK 5 and 6
● acc. to EN 954	Cat. 4
● Performance level according to ISO 13849-1	e
● SIL acc. to IEC 61508	SIL 3
Connection method	
required front connector	40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	465 g

Approvals / Certificates

General Product Approval | **EMV**

Miscellaneous | UL | RCM | EAC | China RoHS | RCM

For use in hazardous locations | **Functional Saftey**

ATEX | FM | UL | IECEx | TUEV | Type Examination Certificate

Maritime application

ABS | DNV | NK / Nippon Kaiji Kyokai | PRS | RMRS

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