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Data sheet 6ES7326-2BF10-0AB0



spare part SIMATIC S7, digital output SM 326, F-DO 10x 24 V DC/2 A PP, fail-safe digital output for SIMATIC S7F systems, with diagnostic alarm, LVV, up to category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849), 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.	100 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.	6 W
Digital outputs	
Number of digital outputs	10
Short-circuit protection	Yes
Switching capacity of the outputs	
● on lamp load, max.	5 W
Output voltage	
● for signal "1", min.	L+ (-1.0 V)
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.	2.4 A
● for signal "1" permissible range for 40 to 60 °C, min.	7 mA
● for signal "1" permissible range for 40 to 60 °C, max.	2.4 A
● for signal "0" residual current, max.	0.5 mA
Switching frequency	
● with resistive load, max.	25 Hz
● with inductive load, max.	25 Hz
● on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	10 A
— up to 60 °C, max.	6 A
vertical installation	
— up to 40 °C, max.	5 A
Cable length	
● shielded, max.	1 000 m

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● 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
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	370V for 1 min
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	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	330 g

Classifications

	Version	Classification
eClass	16	27-24-22-04
eClass	14	27-24-22-04
eClass	12	27-24-22-04
eClass	9.1	27-24-22-04
eClass	9	27-24-22-04
eClass	8	27-24-22-04
eClass	7.1	27-24-22-04
eClass	6	27-24-22-04
ETIM	10	EC001419
ETIM	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Miscellaneous

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General Product Approval	EMV	For use in hazardous locations			
China RoHS	RCM	ATEX	FM	UL	IECEx

For use in hazardous locations			Functional Saftey		Maritime application
ATEX	Miscellaneous	CCC-Ex	TUEV	Type Examination Certificate	ABS

Maritime application					
BUREAU VERITAS	DNV	LRS	NK / Nippon Kaiji Kyokai	PRS	RINA

Maritime application
CCS (China Classification Society)

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