## **SIEMENS**

## **Data sheet**

6ES7326-1BK02-0AB0



SIMATIC S7, Digital input SM 326, F-DI 24x24 V DC, Fail-safe digital input for SIMATIC S7 F-systems with diagnostic alarm, up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849), 1x 40-pole

Figure similar

Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	450 mA
from backplane bus 5 V DC, max.	100 mA
Encoder supply	
Number of outputs	4; Isolated
Output current	
Rated value	400 mA
Power loss	
Power loss, typ.	10 W
Digital inputs	
Number of digital inputs	24
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	24
— up to 60 °C, max.	24; (at 24 V) or 18 (at 28.8 V)
Input voltage	
Type of input voltage	DC
<ul> <li>Rated value (DC)</li> </ul>	24 V
• for signal "0"	-30 to +5 V
• for signal "1"	+11 to +30V
Input current	
• for signal "0", max. (permissible quiescent current)	2 mA
• for signal "1", typ.	10 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	3.4 ms
— at "1" to "0", max.	3.4 ms
Cable length	
• shielded, max.	200 m
• unshielded, max.	100 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes; if short-circuit test is deactivated
<ul> <li>permissible quiescent current (2-wire sensor), max.</li> </ul>	2 mA
Interrupts/diagnostics/status information	
Diagnostics function	Yes

Yes	
Yes	
Yes	
Yes	
Potential separation	
Yes	
12	
Yes	
Isolation	
500 V DC/350 V AC	
Standards, approvals, certificates	
AK 6	
Cat. 4	
e	
SIL 3	
40-pin	
80 mm	
125 mm	
120 mm	
Weights	
442 g	

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last modified: