

Data sheet

6ES7221-1BH22-0XA0



Figure similar

Spare part SIMATIC S7-200, Digital input EM 221, only for S7-22X CPU, 16 DI, 24 V DC, sinking-sourcing

Input current	
from backplane bus 5 V DC, max.	70 mA
Power loss	
Power loss, typ.	3 W
Digital inputs	
Number of digital inputs	16
Source/sink input	Yes
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input voltage	
<ul style="list-style-type: none"> Type of input voltage Rated value (DC) for signal "0" for signal "1" 	DC 24 V 0 to 5 V +15 to +30 V
Input current	
<ul style="list-style-type: none"> for signal "1", typ. 	4 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	4.5 ms
Cable length	
<ul style="list-style-type: none"> shielded, max. unshielded, max. 	500 m 300 m
Encoder	
Connectable encoders	
<ul style="list-style-type: none"> 2-wire sensor — permissible quiescent current (2-wire sensor), max. 	Yes 1 mA
Potential separation	
Potential separation digital inputs	
<ul style="list-style-type: none"> Potential separation digital inputs between the channels, in groups of 	Yes; Optocoupler 4
Isolation	
Isolation tested with	500V AC for 1 minute
Connection method	
Plug-in I/O terminals	Yes
Dimensions	
Width	71.2 mm
Height	80 mm
Depth	62 mm
Weights	

Weight, approx.	160 g
-----------------	-------

Classifications

	Version	Classification
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	Test Certificates
--------------------------	-------------------



[Type Test Certificates/Test Report](#)

Maritime application	other
----------------------	-------



[Confirmation](#)

Environment



[Environmental Confirmations](#)

last modified:

8/24/2025

TURLL

YOUR GLOBAL AUTOMATION PARTNER

6ES7221-1BH22-0XA0

OFFICIAL DATASHEET & QUOTATION

- 100% New & Original Factory Sealed
- Global Express Shipping (DHL/FedEx/UPS)
- 12-Month Warranty Protection
- Professional Technical Support

[CHECK STOCK & PRICE](#)



Need Assistance? Scan to Chat on WhatsApp

sales@turl.com | +852 6339 7344