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Data sheet 6ES7221-1EF22-0XA0

SIMATIC S7-200, Digital input EM 221, Isolated 8 DI, 120/230 V AC

Input current	
from backplane bus 5 V DC, max.	30 mA
Power loss	
Power loss, typ.	3 W
Digital inputs	
Number of digital inputs	8
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input voltage	
• Type of input voltage	AC
• Rated value (AC)	230 V; 220/230 V AC (47 Hz to 63 Hz)
• for signal "0"	up to 20 V AC
• for signal "1"	79V AC or more
Input current	
• for signal "1", typ.	2.5 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	15 ms

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Cable length	
• shielded, max.	500 m
• unshielded, max.	300 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1 mA
Potential separation	
Potential separation digital inputs	
• Potential separation digital inputs	Yes; Optocoupler
• between the channels, in groups of	1; 8 groups
Connection method	
Plug-in I/O terminals	Yes
Dimensions	
Width	71.2 mm
Height	80 mm
Depth	62 mm
Weights	
Weight, approx.	160 g

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