SIEMENS

Data sheet 6ES7221-1EF22-0XA0



*** spare part *** 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
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
Classifications	

	Version	Classification

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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

Manufacturer Declaration | Miscellaneous | CE EG-Konf. | EAC | China RoHS | Manufacturer Declaration

For use in hazardous locations

FM

Maritime application

Bureau Veritas | GL | LRS | RMRS | CCS (China Classification Society)

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