



*** 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			
		eClass	Version
			Classification
		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	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval	For use in hazardous locations	Marine / Shipping
--------------------------	--------------------------------	-------------------

[Manufacturer Declaration](#)


EG-Konf.

[Miscellaneous](#)

[EM](#)




GL

Marine / Shipping


LRS


RMRS

[CCS \(China Classification Society\)](#)

last modified:

5/22/2024 