SIEMENS

Data sheet 6ES7421-1EL00-0AA0



SIMATIC S7-400, digital input SM 421, isolated 32 DI; 120 V DC/AC

Input current	
from backplane bus 5 V DC, max.	200 mA
Power loss	
Power loss, typ.	6.5 W
Digital inputs	
Number of digital inputs	32
Input characteristic according to IEC 61131	Type 1
Number of simultaneously controllable inputs	
● Number of simultaneously controllable inputs	32
Input voltage	
● Type of input voltage	AC/DC
● Rated value (UC)	120 V; 47 ... 63 Hz
● for signal "0"	0 to 20 V UC
● for signal "1"	79 to 132 V AC; 80 to 132 V DC
Input current	
● for signal "0", min.	0 mA
● for signal "0", max. (permissible quiescent current)	1 mA
● for signal "1", typ.	2 mA; 2 to 5 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", min.	5 ms
— at "0" to "1", max.	25 ms; 10 / 20 ms
— at "1" to "0", min.	5 ms
— at "1" to "0", max.	25 µs
Cable length	
● shielded, max.	1 000 m
● unshielded, max.	600 m
Encoder	
Connectable encoders	
● 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1 mA
Interrupts/diagnostics/status information	
Diagnostics indication LED	
● Status indicator digital input (green)	Yes
Potential separation	
Potential separation digital inputs	
● between the channels	Yes
● between the channels, in groups of	8
● between the channels and backplane bus	Yes

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Isolation	
Isolation tested with	1 500 V AC
Dimensions	
Width	25 mm
Height	290 mm
Depth	210 mm
Weights	
Weight, approx.	600 g

Classifications

	Version	Classification
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

EG-Konf. | Miscellaneous | UKCA | UL | KC | RCM

General Product Approval			EMV		For use in hazardous locations
China RoHS	Miscellaneous	Manufacturer Declaration	RCM	RCM	FM

For use in hazardous locations	Maritime application				
UL	ABS	BUREAU VERITAS	DNV	LRS	NK / Nippon Kaiji Kyokai

Maritime application

PRS | RINA | RMRS | CCS (China Classification Society)

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