



Figure similar

Spare part SIMATIC S7-200, Digital I/O EM 223, only for S7-22X CPU, 16 DI 24 V DC, Sink/Source, 16DO 24 V DC; 0.75 A/channel,source

Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
• permissible range, lower limit (DC)	20.4 V
• permissible range, upper limit (DC)	28.8 V
Input current	
from backplane bus 5 V DC, max.	160 mA
Power loss	
Power loss, typ.	6 W
Digital inputs	
Number of digital inputs	16
Input voltage	
• Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "0"	0 to 5 V
• for signal "1"	15 V DC to 30 V DC
Input current	
• 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
Digital outputs	
Number of digital outputs	16
Short-circuit protection	No
Limitation of inductive shutdown voltage to	L+ (-48 V)
Output voltage	
• for signal "0", max.	0.1 V
• for signal "1", min.	20 V
Output current	
• for signal "1" rated value	750 mA
Total current of the outputs (per group)	
all mounting positions	
— Current per conductor/group, max.	3 A; 3 / 3 / 6
Relay outputs	
Switching capacity of contacts	
— with inductive load, max.	0.75 A; each output
— on lamp load, max.	5 W
— with resistive load, max.	0.75 A; each output
Cable length	

• shielded, max.		500 m	
• unshielded, max.		150 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	4		
Potential separation digital outputs			
• Potential separation digital outputs	Yes; Optocoupler		
• between the channels, in groups of	4; 4 / 4 / 8		
Isolation			
Isolation tested with	500 V AC		
connection method			
Plug-in I/O terminals	Yes		
Dimensions			
Width	137.5 mm		
Height	80 mm		
Depth	62 mm		
Weights			
Weight, approx.	360 g		
Classifications			
	eClass	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	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.  ATEX   ABS  BUREAU VERITAS			
Marine / Shipping			
 DNV  GL  LRS  RMRS CCS (China Classification Society)			

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