



SIMATIC S7-400, FM458-1 DP application group for SIMATIC S7-400

Supply voltage	
Rated value (DC)	
• 5 V DC	Yes
• 24 V DC	Yes
permissible range (ripple included), lower limit (DC)	4.8 V
permissible range (ripple included), upper limit (DC)	5.25 V
Input current	
Current consumption, typ.	1.5 A
Current consumption, max.	3 A
Memory	
Backup	
• present	Yes; SRAM
Battery	
Backup battery	
• Backup current, max.	15 µA
Time of day	
Clock	
• Hardware clock (real-time)	Yes
• Resolution	500 ms
Digital inputs	
Number of digital inputs	8; Connector X2
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	-1 to +6V
• for signal "1"	13.5 to 33V
Input current	
• for signal "0", max. (permissible quiescent current)	0 mA
• for signal "1", typ.	3 mA; at 24 V
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	5 µs
Protocols	
PROFIBUS DP	
Services	
— Equidistance	Yes; With connection to interrupt tasks
— Direct data exchange (slave-to-slave communication)	Yes
Interrupts/diagnostics/status information	
Alarms	Yes
Potential separation	

Potential separation digital inputs		No; only via optional interface modules			
Weights					
Weight, approx.		1 000 g			
Classifications					
		Version	Classification		
	eClass	14	27-24-22-05		
	eClass	12	27-24-22-05		
	eClass	9.1	27-24-22-05		
	eClass	9	27-24-22-05		
	eClass	8	27-24-22-05		
	eClass	7.1	27-24-22-05		
	eClass	6	27-24-22-05		
	ETIM	10	EC001422		
	ETIM	9	EC001422		
	ETIM	8	EC001422		
	ETIM	7	EC001422		
	IDEA	4	3567		
	UNSPSC	15	32-15-17-05		
Approvals / Certificates					
General Product Approval			EMV		
 EG-Konf.		Miscellaneous	 UL	 RCM	 RCM
EMV	For use in hazardous locations				
 RCM	 ATEX	 IECEX	Miscellaneous	 ATEX	CCC-Ex
Maritime application					
 RINA	 RMRS				

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