

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



Supply voltage	
Rated value (DC)	
<ul style="list-style-type: none"> <li>• 5 V DC</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• 24 V DC</li> </ul>	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	
<ul style="list-style-type: none"> <li>• present</li> </ul>	Yes; SRAM
Battery	
Backup battery	
<ul style="list-style-type: none"> <li>• Backup current, max.</li> </ul>	15 $\mu$ A
Hardware configuration	
Slots	

• required slots	1
<b>Time of day</b>	
<b>Clock</b>	
• Hardware clock (real-time)	Yes
• Resolution	500 ms
• Resolution	500 ms
<b>Digital inputs</b>	
Number of digital inputs	8; Connector X2
<b>Input voltage</b>	
• Rated value (DC)	24 V
• for signal "0"	-1 to +6V
• for signal "1"	13.5 to 33V
<b>Input current</b>	
• for signal "0", max. (permissible quiescent current)	0 mA
• for signal "1", typ.	3 mA; at 24 V
<b>Input delay (for rated value of input voltage)</b>	
for standard inputs	
— at "0" to "1", max.	5 $\mu$ s
<b>Interfaces</b>	
<b>PROFIBUS DP</b>	
• Equidistance	Yes; With connection to interrupt tasks
• Direct data exchange (slave-to-slave communication)	Yes
<b>Interrupts/diagnostics/status information</b>	
Alarms	Yes
<b>Potential separation</b>	
<b>Potential separation digital inputs</b>	
• Potential separation digital inputs	No; only via optional interface modules
<b>Weights</b>	
Weight, approx.	1 000 g
<b>last modified:</b>	12/27/2018