



SIMATIC S7-400, digital output SM 422, isolated 16 DO; 120/230 V AC, 2 A

Figure similar

Supply voltage	
Load voltage L1	
• Rated value (AC)	230 V; 120/230 V AC
• permissible range, lower limit (AC)	79 V
• permissible range, upper limit (AC)	264 V
• permissible frequency range, lower limit	47 Hz
• permissible frequency range, upper limit	63 Hz
Input current	
from load voltage L+ (without load), max.	1.5 mA
from backplane bus 5 V DC, max.	400 mA
Power loss	
Power loss, typ.	16 W
Digital outputs	
Number of digital outputs	16
Short-circuit protection	Yes; Clocked electronically: Following a short-circuit, reclosing under a full load cannot be ensured. Countermeasures: change the signal at the output or interrupt the load voltage of the module. Briefly disconnect the load from the output.
• required current for fuse shutdown, min.	100 A
• Response time, max.	100 ms
Controlling a digital input	Yes; possible
Size of motor starters according to NEMA, max.	Size 5 according to NEMA
Spare fuses	Fuse 8 A, 250 V, quick response
Zero-crossing switch	No
Switching capacity of the outputs	
• on lamp load, max.	50 W
Output voltage	
• for signal "1", min.	L1 (-18.1 V)
• for signal "1" (at max. current), min.	L1 (-1.3 Vrms)
• for signal "1" (at min. current), min.	L1 (-18.1 Vrms)
Output current	
• for signal "1" rated value	2 A
• for signal "1" permissible range, min.	10 mA
• for signal "1" permissible range, max.	2 A
• for signal "1" permissible surge current, max.	50 A; per cycle
• for signal "0" residual current, max.	2.6 mA
Output delay with resistive load	
• "0" to "1", max.	1 ms
• "1" to "0", max.	1 AC cycle

<b>Parallel switching of two outputs</b>	
<ul style="list-style-type: none"> <li>for redundant control of a load</li> </ul>	Yes; Possible (only outputs with the same load voltage)
<b>Switching frequency</b>	
<ul style="list-style-type: none"> <li>with resistive load, max.</li> <li>with inductive load, max.</li> <li>with inductive load (acc. to IEC 60947-5-1, AC15), max.</li> <li>on lamp load, max.</li> </ul>	10 Hz 0.5 Hz 0.5 Hz 1 Hz
<b>Total current of the outputs (per group)</b>	
all mounting positions	
— up to 40 °C, max.	4 A; 6 A with fan assembly
— up to 60 °C, max.	2 A; 5 A with fan subassembly; per 4 adjacent outputs
<b>Cable length</b>	
<ul style="list-style-type: none"> <li>shielded, max.</li> <li>unshielded, max.</li> </ul>	1 000 m 600 m
<b>Interrupts/diagnostics/status information</b>	
Diagnostics function	Not parameterizable
<b>Diagnostics indication LED</b>	
<ul style="list-style-type: none"> <li>internal fault INTF (red)</li> <li>external fault EXTf (red)</li> </ul>	Yes; Fuse blown Yes; Missing load voltage
<b>Potential separation</b>	
Potential separation digital outputs	
<ul style="list-style-type: none"> <li>between the channels</li> <li>between the channels, in groups of</li> <li>between the channels and backplane bus</li> </ul>	Yes 4 Yes
<b>Isolation</b>	
Isolation tested with	1 500 V AC
<b>Dimensions</b>	
Width	25 mm
Height	290 mm
Depth	210 mm
<b>Weights</b>	
Weight, approx.	800 g
<b>Classifications</b>	

	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	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**

[Miscellaneous](#)



General Product Approval	EMV	For use in hazardous locations
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[China RoHS](#)

[Miscellaneous](#)



[FM](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)



Maritime application



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

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