

SIMATIC S7-400, SM 422 DIGITAL OUTPUT MODULE, OPTIC.
ISOLATED, 16 DO, 24V DC, 2A



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 load voltage L+ (without load), max.	30 mA
from backplane bus 5 V DC, max.	160 mA

Power losses

Power loss, max.	7 W
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Digital outputs

Number of digital outputs	16
Limitation of inductive shutdown voltage to	-30 V

Switching capacity of the outputs

• Lamp load, max.	10 W
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Output voltage

• for signal "1", min.	L+ (-0.5 V)
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Output current

<ul style="list-style-type: none"> • for signal "1" rated value 	2 A
<ul style="list-style-type: none"> • for signal "1" permissible range for 0 to 60 °C, min. 	5 mA
<ul style="list-style-type: none"> • for signal "1" permissible range for 0 to 60 °C, max. 	2.4 A
<ul style="list-style-type: none"> • for signal "0" residual current, max. 	0.5 mA
Switching frequency	
<ul style="list-style-type: none"> • with resistive load, max. 	100 Hz
<ul style="list-style-type: none"> • with inductive load, max. 	0.1 Hz
Aggregate current of outputs (per group)	
all mounting positions	
— up to 60 °C, max.	2 A; 2 adjacent outputs each
Cable length	
<ul style="list-style-type: none"> • Cable length, shielded, max. 	1 000 m
<ul style="list-style-type: none"> • Cable length unshielded, max. 	600 m
Galvanic isolation	
Galvanic isolation digital outputs	
<ul style="list-style-type: none"> • between the channels, in groups of 	8
<ul style="list-style-type: none"> • between the channels and the backplane bus 	Yes
Isolation	
Isolation checked with	500 V DC
Dimensions	
Width	25 mm
Height	290 mm
Depth	210 mm
Weights	
Weight, approx.	600 g
last modified:	01.12.2014