

SIMATIC S7-400 Digital input/output modules

SM 422 digital output modules

Overview



- Digital outputs for the SIMATIC S7-400
- For connecting solenoid valves, contactors, small-power motors, lamps and motor starters

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Application

Digital output modules convert the internal signal levels of the S7-400 to the external signal levels required for the process.

The modules are suitable for the connection of such equipment as solenoid valves, contactors, small motors, lamps and motor starters.

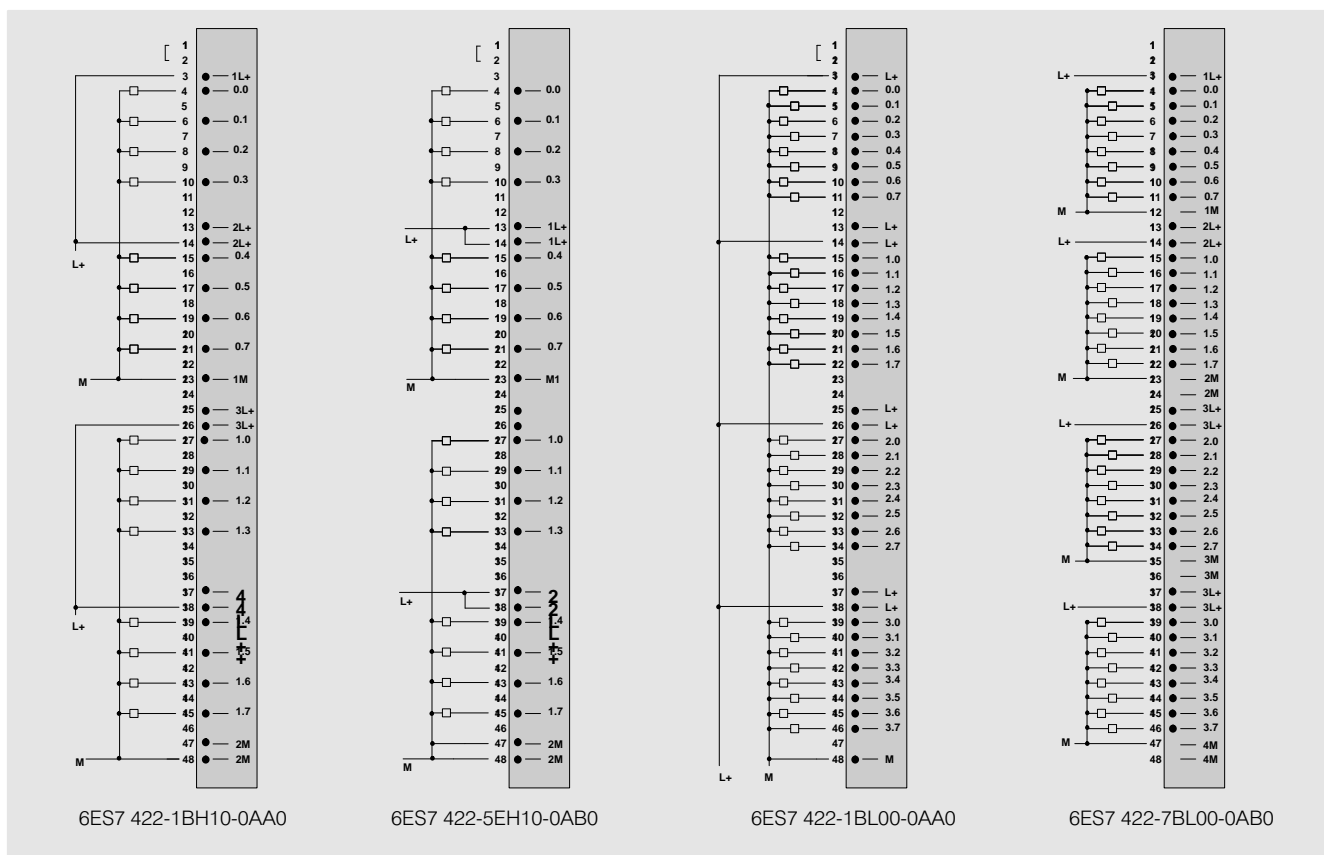


Fig. 4/15 Terminal connection diagrams of the digital output modules

SIMATIC S7-400

Digital input/output modules

SM 422 digital output modules (continued)

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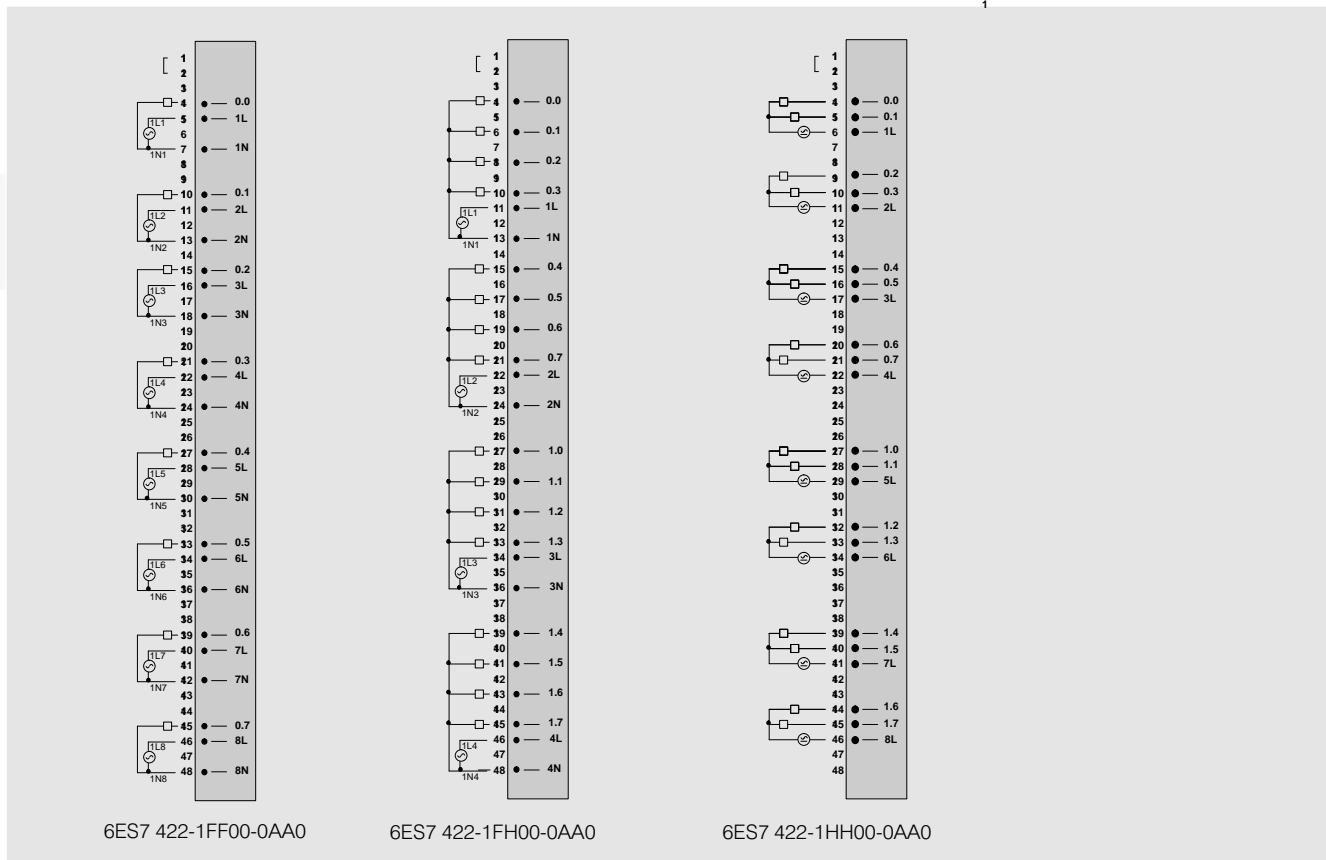


Fig. 4/16 Terminal connection diagrams of the digital output modules

Technical specifications

	6ES7 422-	1BH10-0AA0	5EH10-0AB0	1BL00-0AA0	7BL00-0AB0
Number of outputs		16	16	32	32
Interrupts		—	Diagnostics interrupt	—	Diagnostics interrupt
Diagnostics		—	internal/external fault	—	internal/external fault
Rated load voltage L+/L1		24 V DC	20 to 125 V DC	24 V DC	24 V DC
• Permissible range		20.4 to 28.8 V	20 to 138 V	20.4 to 28.8 V	20.4 to 28.8 V
Output voltage					
• for "1" signal	min.	L+ - 0.5 V	L+ - 1 V	L+ - 0.3 V	L+ - 0.8 V
Isolation		yes	yes	yes	yes
• in groups of		8	8	32	8
Output current					
• for "1" signal					
Rated value		2 A	1.5 A	0.5 A	0.5 A
Permissible range		5 mA to 2.4 A	5 mA to 1.5 A	5 mA to 0.6 A	5 mA to 0.6 A
• for "0" signal	max.	0.5 mA	10 mA	0.3 mA	0.5 mA
Total output currents					
• up to 60 °C		2 A (per pair of adjacent outputs)	8 A	2 A (per group of 8 adjacent outputs)	2 A
Lamp load	max.	10 W	8 W	5 W	5 W
Switching frequency of outputs					
• Resistive loads	max.	100 Hz	100 Hz	100 Hz	100 Hz
• Inductive loads	max.	0.1 Hz	0.1 Hz	0.5 Hz	2 Hz
• Lamp loads	max.	100 Hz	100 Hz	100 Hz	2 Hz