SIMATIC S7-400 SM 422

Product Data Sheet

6ES7422-5EH10-0AB0

Sixteen-channel DC Digital Output Module

DIGITAL OUTPUT CHANNELS	ISOLATED OUTPUT GROUP	RATED LOAD-VOLTAGE CLASS	PERMISSIBLE LOAD VOLTAGE
16	**8 channels**	**20 to 125 V DC**	**20 to 138 V DC**

Siemens 6ES7422-5EH10-0AB0 is the SIMATIC S7-400 SM 422 digital output module with sixteen 1.5 A channels in two isolated groups of eight. Its nominal load-voltage class is 20 to 125 V DC, with a documented operating range of 20 to 138 V DC. Each channel has fuse protection, and the module includes reverse-polarity protection.

01 TECHNICAL DATA

Digital output channels	16
Isolated output group	8 channels
Rated load-voltage class	20 to 125 V DC
Permissible load voltage	20 to 138 V DC
Rated current per output	1.5 A
Minimum on-state load	10 mA
Peak current per channel	3 A for 10 ms maximum
Maximum off-state leakage	0.5 mA
Maximum backplane current at 5 V	700 mA
Typical module loss	10 W

Siemens S7-400 Module Data Reference Manual A5E00850736-08, November 2016; exact SM 422 section, pages 132-136.

02 ADDITIONAL PRODUCT DATA

Maximum turn-on delay	2 ms with resistive load
Maximum turn-off delay	13 ms with resistive load
Maximum resistive switching rate	10 Hz
Maximum DC-13 inductive switching rate	0.5 Hz
Isolation test voltage	1500 V AC

03 PRODUCT FUNCTION

Programmable diagnostics, diagnostic interrupts and substitute-value behavior support integration into the S7-400 project. Green channel LEDs and separate INTF/EXTF indicators distinguish output status from internal or external faults. Total permissible output current depends on ambient temperature and fan use, so sixteen channels cannot all be assigned their individual peak or continuous rating without checking the group limits.

04 SYSTEM COMPATIBILITY

Calculate total output loading for the actual mounting temperature and fan configuration. Without a fan, the specification gives 16 A total up to 40 degrees C and 8 A up to 60 degrees C; the corresponding fan-assisted limits are 21 A and 14 A. Distribute high-current loads between both groups.

05 REFERENCE

Siemens S7-400 Module Data Reference Manual A5E00850736-08, November 2016; exact SM 422 section, pages 132-136.

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