

SINAMICS S120 BOOKSIZE COMPACT

Product Data Sheet

6SL3420-1TE21-0AA1

Single Axis Motor Power Module

DC LINK VOLTAGE	RATED OUTPUT CURRENT	BASE-LOAD OUTPUT CURRENT	S6 OUTPUT CURRENT
510 to 720 V DC	9 A	7.7 A	10 A at 40% duty

Siemens 6SL3420-1TE21-0AA1 is a single axis motor power module in the SINAMICS S120 Booksize Compact range. It is intended for compatible industrial automation projects requiring the documented single-axis motor power conversion.

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VERIFIED TECHNICAL DATA

DC link voltage	510 to 720 V DC
Rated output current	9 A
Base-load output current	7.7 A
S6 output current	10 A at 40% duty
Maximum output current	27 A
Rated motor power	4.8 kW
Base-load motor power	4.1 kW
Rated pulse frequency	4 kHz
DC link current	11 A
DC busbar capacity	100 A

ADDITIONAL PRODUCT DATA

24 V busbar capacity	20 A
DC link capacitance	110 microF
Electronics supply	24 V DC, -15/+20%
Maximum electronics current	0.85 A
Motor cable length	50 m shielded / 75 m unshielded

DOCUMENTED USE SETTINGS

Automotive Manufacturing and Vehicle Component Production: Automotive Body Production Processes.

Metal Production and Industrial Materials Processing: Steel Rolling Process Control.

Industrial Packaging Production and Material Converting: Industrial Packaging Process Automation.

SYSTEM COMPATIBILITY

Integrate 6SL3420-1TE21-0AA1 only in the documented SINAMICS S120 Booksize Compact configuration. Match the installed interfaces and the engineered application before selecting this single axis motor power module.

PRODUCT EVIDENCE

Siemens D21.4 2017, Booksize Compact single Motor Modules, printed pp.7/66 to 7/67