

SINAMICS S120

Product Data Sheet

6SL3120-1TE24-5AA1

45 A Single Motor Module

DC-LINK VOLTAGE RANGE	RATED OUTPUT CURRENT	HIGH-OVERLOAD BASE CURRENT	S6 OUTPUT CURRENT, 40% DUTY
510 to 720 V DC	45 A	38 A	60 A

Siemens 6SL3120-1TE24-5AA1 is a 45 A Single Motor Module in booksize format for SINAMICS S120. It converts the shared DC-link supply into controlled motor power within a configured multi-axis or single-axis drive system.

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VERIFIED TECHNICAL DATA

DC-link voltage range	510 to 720 V DC
Rated output current	45 A
High-overload base current	38 A
S6 output current, 40% duty	60 A
Maximum output current	85 A
Rated pulse frequency	4 kHz
Rated power at 600 V DC	24 kW
Power at base current, 600 V DC	21 kW
Rated DC-link current	54 A
DC-link busbar current capacity	100 A

ADDITIONAL PRODUCT DATA

DC-link capacitance	1175 microF
Maximum 24 V DC current requirement	1.2 A
24 V DC busbar current capacity	20 A
Efficiency	0.97
Rated internal-air-cooling power loss	0.43 kW

DOCUMENTED USE SETTINGS

Industrial Product Manufacturing and Assembly Production: Industrial Product Manufacturing.

Packaging Production and Consumer Goods Manufacturing: Consumer Goods Packaging.

Industrial Material Production and Metal Processing: Industrial Material Processing.

SYSTEM COMPATIBILITY

Identify the exact 6SL3120-1TE24-5AA1 Motor Module and compatible S120 Control Unit. Compare the motor, DC-link and load-duty requirements with the 45 A table.

PRODUCT EVIDENCE

Siemens D21.1 2006 English SINAMICS S120 Single Motor Modules, pp.2/107 to 2/111 (PDF pp.3 to 7)