Siemens 6SL3130-7TE21-6AA4

01 SINAMICS S120 Active Line Module / system role

Product function

Siemens 6SL3130-7TE21-6AA4 supplies a controlled DC link and returns regenerative energy through a matched Active Interface Module and the configured S120 infeed system.

Selected configuration

The rated DC-link current is 27 A at 600 V DC. The 16 kW execution has internal air cooling and a rated input-current value of 25 A at 400 V AC, with different values at the other stated line voltages.

Functional path

Three-phase supply	Active Interface Module	Active Line Module	Configured S120 DC link

Configuration	16 kW rated active infeed
Interface	27 A at 600 V DC
Operating feature	Required 16 kW Active Interface Module pairing

The associated 16 kW Active Interface Module is 6SL3100-0BE21-6AB0. It forms the required functional unit with the Active Line Module, including the line-side filtering arrangement; it is a separate component.

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02 Technical operating envelope

Rated infeed/regenerative power	16 kW
Line supply	380–480 V, three phase
Rated DC-link current	27 A at 600 V DC
Rated input current at 380 / 400 / 480 V	26 / 25 / 21 A
S6 output power, 40% duty	21 kW
Maximum output power	35 kW, subject to duty constraints

24 V electronics current	1.1 A maximum
Internal DC-link capacitance	710 µF
Maximum drive-line-up capacitance	20000 µF
Rated power loss	0.28 kW
Cooling airflow requirement	0.016 m³/s
Protection	IP20

Values refer to the 16 kW internally air-cooled booksize execution. Duty-dependent overload values and system capacitance require the complete drive-design assessment.

Operating interpretation

Use continuous, S6 and peak ratings with their respective duty constraints.

Configuration boundary

Match the Active Interface Module, line-up capacitance, cooling and configured topology.

Can the 35 kW maximum of 6SL3130-7TE21-6AA4 be used continuously?

No. The maximum is a constrained peak value; the rated power is 16 kW and the stated S6 40% value is 21 kW.

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03 System integration and applications

Controlled S120 infeed

The module supplies the DC link of a configured booksize drive line-up.

Regenerative drive systems

Energy can be returned through the engineered active infeed arrangement.

Multi-axis DC-link supply

Connected Motor Modules share the infeed subject to power, current and capacitance limits.

Matched line-side filtering

The associated Active Interface Module forms the required filtered line connection.

System and supply context

Siemens 6SL3130-7TE21-6AA4 operates within the following defined system context. Confirm the 16 kW 7TE21-6AA4 execution and matched Active Interface Module.

Application boundary

Values refer to the 16 kW internally air-cooled booksize execution. Duty-dependent overload values and system capacitance require the complete drive-design assessment.

Does 6SL3130-7TE21-6AA4 support regenerative operation?

It is an Active Line Module with infeed and regenerative-feedback capability when installed in the appropriate S120 system arrangement.

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04 Engineering selection decisions

Which Active Interface Module pairs with 6SL3130-7TE21-6AA4?

The 16 kW booksize pairing is 6SL3100-0BE21-6AB0. The interface module is required for the functional infeed arrangement and must be included in the system design.

What is the rated DC-link output of 6SL3130-7TE21-6AA4?

The rated current is 27 A at 600 V DC, corresponding to the 16 kW class. Use the complete duty and system conditions for sizing.

What 24 V load should be allowed for 6SL3130-7TE21-6AA4?

The electronics supply requires up to 1.1 A. Budget other modules and auxiliaries separately rather than assigning this value to the whole drive line-up.

Which cooling value is specified for 6SL3130-7TE21-6AA4?

The internally air-cooled execution requires 0.016 m^3/s airflow and has a stated 0.28 kW loss at rated output. Cabinet layout must provide the necessary cooling conditions.

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05 Configuration boundary and references

Lifecycle and support

The current manufacturing and factory-support phase of 6SL3130-7TE21-6AA4 is unconfirmed. Apter Power availability is assessed separately from manufacturer lifecycle status.

Replacement assessment

Match the Active Interface Module, line-up capacitance, cooling and configured topology.

Document roles

Use the original manufacturer excerpt for its preserved technical tables and drawings. This product brief explains selection and system context. The separate installation guide covers preparation, connection, tests and handover; use it together with the applicable manufacturer instructions.

Technical basis

Siemens SINAMICS S120 Catalog D 21.4, 2017.

Related product navigation

- Siemens 6ES7417-4XL04-0AB0
- Siemens 6DS1144-8AA

These are related references, not confirmed substitutes or an automatically approved assembly.

Product enquiries