Siemens 6SL3130-7TE21-6AA4

01 Infeed configuration

1 Identify the infeed combination

Record the Active Line Module, associated Active Interface Module and Control Unit configuration. Confirm the 16 kW execution and the intended line voltage before replacing any part of the infeed chain.

2 Isolate the drive DC link

Follow the S120 isolation and stored-energy discharge procedure. Verify the required safe electrical state before accessing line terminals, DC-link busbars or adjacent drive modules, including any possible regenerative or external supply path.

Rated infeed/regenerative power	16 kW
Line supply	380–480 V, three phase

6SL3130-7TE21-6AA4

02 Line-side design

1 Check the line-side pairing

Compare the installed Active Interface Module with the specified 16 kW pairing. Review line-side filtering, protection and contactor arrangement as one system rather than assuming the Active Line Module can operate alone.

2 Review continuous and peak demand

Compare the Motor Module load profile with the rated, S6 and maximum infeed values. Keep duty-cycle constraints explicit so a brief peak rating is not used to justify continuous operation.

Rated DC-link current	27 A at 600 V DC
Rated input current at 380 / 400 / 480 V	26 / 25 / 21 A

6SL3130-7TE21-6AA4

03 Capacitance and cooling

1 Account for link capacitance

Total the connected DC-link capacitance and check it against the applicable system limit. Include the actual line-up and any additions made during maintenance before restoring the precharge sequence.

2 Restore cooling paths

Inspect the internal-air-cooling arrangement and cabinet airflow. Remove obstructions and retain the specified clearances so the module's heat loss can be removed under the expected ambient and load conditions.

S6 output power, 40% duty	21 kW
Maximum output power	35 kW, subject to duty constraints

6SL3130-7TE21-6AA4

04 Supply and connections

1 Check low-voltage electronics

Verify the 24 V supply and its capacity for the complete drive system. Inspect DRIVE-CLiQ connections and retained topology, keeping electronics checks separate from the high-energy line and DC-link circuits.

2 Reinstate power connections

Restore U1/V1/W1, PE and the DC-link connections using the applicable terminal and busbar instructions. Check conductor support and contact condition before energization; do not infer torque from another power-size execution.

24 V electronics current	1.1 A maximum
Internal DC-link capacitance	710 µF

6SL3130-7TE21-6AA4

05 Drive acceptance

1 Commission the controlled infeed

Use the approved S120 commissioning procedure to confirm topology, supply conditions and DC-link behavior. Observe diagnostics and the intended regenerative response before enabling the full connected load.

2 Record the verified line-up

Retain module identities, capacitance assessment, supply checks and commissioning results. Return the drive system to operation only after infeed, interface, cooling and protection functions have been accepted together.

Technical basis: Siemens SINAMICS S120 Catalog D 21.4, 2017.

Related product navigation

Siemens 6DR2104-4

Siemens 6AV6643-0CD01-1AX1

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