

SINAMICS S120 drive system

Booksize format

Active Line Modules in booksize format

Selection and ordering data

Rated power	Active Line Module in booksize format
kW (hp)	Article No.
Line voltage 380 ... 480 V 3 AC	
16 (18)	6SL3130-7TE21-6AA4
36 (40)	6SL3130-7TE23-6AA3
55 (60)	6SL3130-7TE25-5AA3
80 (100)	6SL3130-7TE28-0AA3
120 (150)	6SL3130-7TE31-2AA3

Description	Article No.
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Accessories

Shield connection plate

For Line Modules and Motor Modules in booksize format with a width of

• 150 mm (5.91 in)	6SL3162-1AF00-0AA1
• 200 mm (7.87 in)	6SL3162-1AH01-0AA0
• 300 mm (11.81 in)	6SL3162-1AH00-0AA0

DC link rectifier adapter

For direct infeed of DC link voltage

• Screw-type terminals 0.5 ... 10 mm ² For Line Modules and Motor Modules in booksize format with a width of 50 mm (1.97 in), 75 mm (2.95 in) and 100 mm (3.94 in)	6SL3162-2BD00-0AA0
• Screw-type terminals 35 ... 95 mm ² For Line Modules and Motor Modules in booksize format with a width of 150 mm (5.91 in), 200 mm (7.87 in) and 300 mm (11.81 in)	6SL3162-2BM00-0AA0

DC link adapter

(2 units)

For multi-tier configuration

Screw-type terminals 35 ... 95 mm²

For all Line Modules and Motor Modules in booksize format

6SL3162-2BM01-0AA0

Accessories for re-ordering

24 V terminal adapter	6SL3162-2AA00-0AA0
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For all Line Modules and Motor Modules in booksize format

24 V jumper	6SL3162-2AA01-0AA0
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For connection of the 24 V busbars (for booksize format)

Terminal Kit

(Plug-in terminals, DRIVE-CLiQ jumper (length = module width + 60 mm (2.36 in)), dust protection blanking plugs)

For DRIVE-CLiQ port

For Active Line Modules with a width of

• 100 mm (3.94 in)	6SL3163-8FD00-0AA0
• 150 mm (5.91 in)	6SL3163-8GF00-0AA0
• 200 mm (7.87 in)	6SL3163-8HH00-0AA0
• 300 mm (11.8 in)	6SL3163-8JM00-0AA0

Warning labels in 30 languages

This label set can be glued over the standard German or English labels to provide warnings in other languages. One set of labels is supplied with the devices.

One sign in each of the following languages is provided in each set:

BG, CN, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, JP, KR, LT, LV, MT, NL, NO, PL, PT, RO, RU, SE, SI, SK, TR

6SL3166-3AB00-0AA0

Dust protection blanking plugs

(50 units)

For DRIVE-CLiQ port

6SL3066-4CA00-0AA0

Technical specifications

	Active Line Module in booksize format
	6SL3130-7TE...
Line voltage (up to 2000 m (6562 ft) above sea level)	380 ... 480 V 3 AC $\pm 10\%$ (in operation $-15\% < 1\text{ min}$)
Line frequency	47 ... 63 Hz
SCCR (short-circuit current rating)	65 kA in conjunction with the recommended Class J fuse, or circuit breaker according to UL489 / CSA 22.2 No. 5-02 see recommended line-side components
Line power factor	
• Active mode	
- Fundamental power factor ($\cos \phi_1$)	1 (factory setting), can be altered by inputting a reactive current setpoint
- Total (λ)	1 (factory setting)
• Smart Mode	
- Fundamental power factor	>0.96
- Overall	0.65 ... 0.9
Overvoltage category to EN 60664-1	Class III
DC link voltage V_d	In Active Mode, the DC link voltage is regulated and can be adjusted as a voltage decoupled from the line voltage. In Smart Mode, the DC link voltage is kept in proportion to the line voltage at the mean rectified line voltage value. Factory setting for DC link voltage: 380 ... 400 V 3 AC: 600 V (Active Mode) 400 ... 415 V 3 AC: 625 V (Active Mode) 416 ... 480 V 3 AC: 1.35 $\times$ line voltage (Smart Mode) ¹⁾
Electronics power supply	24 V DC $-15\%/+20\%$
Radio interference suppression	
• Standard (Active Line Module + Active Interface Module)	Category C3 to EN 61800-3 up to 350 m (1148 ft) total cable length
• With line filter	Category C2 according to EN 61800-3 up to 350 m (1148 ft) total cable length Category C3 according to EN 61800-3 from 350 m to 1000 m (1148 ... 3281 ft) total cable length
Type of cooling	Internal air cooling (power units with increased air cooling by built-in fan)
Permissible ambient and coolant temperature (air) during operation for line-side components, Line Modules and Motor Modules	0 ... 40 °C (32 ... 104 °F) without derating, > 40 ... 55 °C (104 ... 131 °F), see derating characteristics
Installation altitude	Up to 1000 m (3281 ft) above sea level without derating, > 1000 ... 4000 m (3281 ... 13124 ft) above sea level, see derating characteristics
Declarations of conformity	CE (Low Voltage and EMC Directives)
Certificate of suitability	cULus

¹⁾ Active Mode can also be selected if the connected motors are suitable for > 650 V DC.