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Technical specifications (continued)

Article No.		6SL3121-2TE13-0AA4	6SL3121-2TE15-0AA4	6SL3121-2TE21-0AA4	6SL3121-2TE21-8AA3
Product brand name		SINAMICS			
Product type designation		S120			
Product designation		Double Motor Module in booksize format with external air cooling			
DC link voltage 510 … 720 V DC					
Output current					
• Rated current I_{rated}	A	2 × 3	2 × 5	2 × 9	2 × 18
• I_{S6} (40 %)	A	2 × 3.5	2 × 6	2 × 10	2 × 24
• Base-load current I_H	A	2 × 2.6	2 × 4.3	2 × 7.7	2 × 15.3
• I_{max}	A	2 × 9	2 × 15	2 × 27	2 × 36
Type rating [1]					
• Based on I_{rated}	kW	2 × 1.6	2 × 2.7	2 × 4.8	2 × 9.7
• Based on I_H	kW	2 × 1.4	2 × 2.3	2 × 4.1	2 × 8.2
DC link current I_d [2]	A	7.2	12	22	43
Current carrying capacity					
• DC link busbars	A	100	100	100	100
• 24 V DC busbars [3]	A	20	20	20	20
DC link capacitance	µF	220	220	220	705
Power requirement at 24 V DC, maximum	A	1.15	1.15	1.15	1.0
Air cooling					
• Power loss [4] Internal/external	W	60/35	70/60	90/95	105/240
• Cooling air requirement	m^3/s	0.008	0.008	0.008	0.016
• Sound pressure level L_{pA} (1 m)	dB	< 60	< 60	< 60	< 60
Motor connection U2, V2, W2		2 × plug connector (X1, X2), max. 30 A (not included in scope of supply, see Accessories)			
Shield connection		Integrated in connector (X1, X2)	Integrated in connector (X1, X2)	Integrated in connector (X1, X2)	Integrated in connector (X1, X2)
PE connection		M5 screw	M5 screw	M5 screw	M5 screw
Motor brake connection		Integrated into the plug-in motor connector (X1, X2), 24 V DC, 2 A			
Motor cable length, maximum					
• Shielded	m	50	50	50	70
• Unshielded	m	75	75	75	100
Degree of protection		IP20	IP20	IP20	IP20
Width	mm	50	50	50	100
Height	mm	380	380	380	380
Depth					
• On/behind mounting surface	mm	226/66.5	226/66.5	226/66.5	226/66.5
Net weight	kg	5.8	5.8	5.7	8.6

[1] Rated power of a typical standard asynchronous motor at 600 V DC link voltage.
[2] Rated DC link current for dimensioning an external DC connection.
[3] If, due to a number of Line Modules and Motor Modules being mounted side-by-side, the current carrying capacity exceeds 20 A, an additional 24 V DC connection using a 24 V terminal adapter is required (max. cross-section 6 mm^2, max. fuse protection 20 A).
[4] Power loss of Motor Module at rated power including losses of 24 V DC electronics power supply.
[5] At max. motor cable length 30 m, pulse frequency 4 kHz and DC link voltage 540 … 600 V.

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SINAMICS S120 drive system
SINAMICS S120 in booksize format

Motor Modules > Double Motor Modules

Technical specifications (continued)

Article No.		–	–	–	6SL3120-2TE21-8AC0
Product designation		Double Motor Module in booksize format internal air cooling C type			
Article No.		6SL3120-2TE13-0AD0	6SL3120-2TE15-0AD0	6SL3120-2TE21-0AD0	6SL3120-2TE21-8AD0
Product designation		Double Motor Module in booksize format internal air cooling D type			
Product brand name		SINAMICS			
Product type designation		S120			
DC link voltage 510 ... 720 V DC					
Output current					
• Rated current I_{rated}	A	2 × 3	2 × 5	2 × 9	2 × 18
• I_{S6} (40 %)					
- C type	A	–	–	–	2 × 24
- D type	A	2 × 4	2 × 6.7	2 × 12	2 × 24
• Base-load current I_H	A	2 × 2.6	2 × 4.3	2 × 7.7	2 × 15.3
• I_{max}					
- C type	A	–	–	–	2 × 36
- D type	A	2 × 9	2 × 15	2 × 27	2 × 54
Type rating[1]					
• Based on I_{rated}	kW	2 × 1.6	2 × 2.7	2 × 4.8	2 × 9.7
• Based on I_H	kW	2 × 1.4	2 × 2.3	2 × 4.1	2 × 8.2
DC link current I_d[2]	A	7.2	12	22	43
Current carrying capacity					
• DC link busbars	A	100	100	100	100
• 24 V DC busbars[3]	A	20	20	20	20
DC link capacitance	µF	220	220	220	705
Power requirement at 24 V DC, maximum	A	0.9	0.9	0.9	1.1
Power loss[4] typical/maximum	W	50/100	80/130	150/190	280/350
Cooling air requirement	m^3/s	0.009	0.009	0.009	0.0155
Sound pressure level L_{pA} (1 m)	dB	<60	<60	<60	<60
Motor connection U2, V2, W2		2 × plug connector (X1, X2)[5], 2 × (1.5 ... 6 mm^2)	2 × plug connector (X1, X2)[5], 2 × (1.5 ... 6 mm^2)	2 × plug connector (X1, X2)[5], 2 × (1.5 ... 6 mm^2)	2 × plug connector (X1, X2)[5], 2 × (1.5 ... 6 mm^2)
PE connection		M5 screw	M5 screw	M5 screw	M5 screw
Motor brake connection		Integrated into the plug-in motor connector (X1, X2), 24 V DC, 2 A			
Motor cable length, maximum					
• Shielded	m	50	50	50	70
• Unshielded	m	75	75	75	100
Degree of protection		IP20	IP20	IP20	IP20
Width	mm	50	50	50	100
Height	mm	380	380	380	380
Depth	mm	270	270	270	270
Net weight	kg	4.7	4.7	4.7	7.7

1) Rated power of a typical standard asynchronous motor at 600 V DC link voltage.
2) Rated DC link current for dimensioning an external DC connection.
3) If, due to a number of Line Modules and Motor Modules being mounted side-by-side, the current carrying capacity exceeds 20 A, an additional 24 V DC connection using a 24 V terminal adapter is required (max. cross-section 6 mm^2, max. fuse protection 20 A).
4) Power loss of Motor Module at rated power including losses of 24 V DC electronics power supply.
5) Connector not included in scope of supply (see Accessories).
6) At max. motor cable length 30 m, pulse frequency 4 kHz and DC link voltage 540 ... 600 V.

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SINAMICS S120 drive system
SINAMICS S120 in booksize format

Selection and ordering data

Rated output current	Type rating	SINAMICS S120 Double Motor Module in booksize format		
		Internal air cooling C type	Internal air cooling D type	External air cooling
A	kW	Article No.	Article No.	Article No.
DC link voltage 510 ...720 V DC				
2 × 3	2 × 1.6	–	**6SL3120-2TE13-0AD0**	**6SL3121-2TE13-0AA4**
2 × 5	2 × 2.7	–	**6SL3120-2TE15-0AD0**	**6SL3121-2TE15-0AA4**
2 × 9	2 × 4.8	–	**6SL3120-2TE21-0AD0**	**6SL3121-2TE21-0AA4**
2 × 18	2 × 9.7	**6SL3120-2TE21-8AC0**	**6SL3120-2TE21-8AD0**	**6SL3121-2TE21-8AA3**

Description	Article No.
Accessories	
Power connector (X1/X2) At Motor Module end, with screw-type terminals 1.5 … 10 mm² For Motor Modules with rated output current of 3 … 30 A	**6SL3162-2MA00-0AA0**
Power connector (X1/X2) At Motor Module end, with screw-type terminals 1.5 ... 6 mm² For Motor Modules in booksize format C/D type with rated output current of 3 ... 30 A	
• With screw-type connection	**6SL3162-2MA00-0AC0**
• With push-in connection	**6SL3162-2MB00-0AC0**
DC link rectifier adapter For direct infeed of DC link voltage For Line Modules and Motor Modules in booksize format with a width of 50 mm and 100 mm Screw-type terminals 0.5 … 10 mm²	**6SL3162-2BD00-0AA0**
DC link adapter (2 units) For multi-tier configuration For all Line Modules and Motor Modules in booksize format Screw-type terminals 35 … 95 mm²	**6SL3162-2BM01-0AA0**
24 V terminal adapter For all Line Modules and Motor Modules in booksize format	**6SL3162-2AA00-0AA0**
Reinforced DC link busbar set For replacement of DC link busbars for 5 modules in booksize format with a width of:	
• 50 mm	**6SL3162-2DB00-0AA0**
• 100 mm	**6SL3162-2DD00-0AA0**

Description	Article No.
Accessories for re-ordering	
SINAMICS S120 Terminal Kit Plug-in terminals, DRIVE-CLiQ jumper, dust-proof blanking plugs for DRIVE-CLiQ port For Motor Modules internal/external air cooling with a width of:	
• 50 mm	**6SL3162-8AB00-0AA0**
• 50 mm, C/D type	**6SL3162-8AC00-0AA0**
• 100 mm	**6SL3162-8BD00-0AA0**
• 100 mm, C/D type	**6SL3162-8BE00-0AA0**
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**
SINAMICS/SINUMERIK/SIMOTION dust-proof blanking plugs For DRIVE-CLiQ port	
• 6 units	**6SL3066-4CA01-0AA0**
• 50 units	**6SL3066-4CA00-0AA0**

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PRODUCT: 6SL3120-2TE13-0AA3 / SINAMICS S120 DOUBLE MOTOR MODULE

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