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Technical specifications (continued)

Article No.		6SL3120-1TE24-5AA3	6SL3120-1TE26-0AA3	6SL3120-1TE28-5AA3	6SL3120-1TE31-3AA3	6SL3120-1TE32-0AA4
Product designation		Single Motor Module in booksize format with internal air cooling				
Article No.		6SL3121-1TE24-5AA3	6SL3121-1TE26-0AA3	6SL3121-1TE28-5AA3	6SL3121-1TE31-3AA3	6SL3121-1TE32-0AA4
Product designation		Single Motor Module in booksize format with external air cooling				
Product brand name		SINAMICS				
Product type designation		S120				
DC link voltage 510 … 720 V DC						
Output current						
• Rated current I_{rated}	A	**45**	**60**	**85**	**132**	**200**
• Base-load current I_H	A	38	52	68	105	141
• I_{S6} (40 %)	A	60	80	110	150	230
• I_{max}	A	85	113	141	210	282
Rated pulse frequency	kHz	4	4	4	4	4
Power[1] At 600 V DC link voltage						
• Rated power	kW	24	32	46	71	107
• Based on I_H	kW	21	28	37	57	76
DC link current I_d[2]	A	54	72	102	158	200
Current carrying capacity						
• DC link busbars	A	200	200	200	200	200
• 24 V DC busbars	A	20	20	20	20	20
DC link capacitance	µF	1175	1410	1880	2820	3995
Power requirement at 24 V DC, maximum	A	1.2	1.2	1.5	1.5	1.5
Internal/external air cooling						
• Power loss[3]						
- Maximum power loss with internal air cooling in control cabinet	W	460	620	790	1290	2090
- Typical losses with internal air cooling in control cabinet[4]	W	380	550	770	1260	2030
- With external air cooling, internal/external	W	140/320	160/460	200/590	290/1000	470/1620
• Cooling air requirement	m^3/s	0.031	0.031	0.044	0.144	0.144
• Sound pressure level L_{pA} (1 m)	dB	< 65	< 65	< 60	< 73	< 73

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) Power loss of Motor Module at rated power including losses of 24 V DC electronics power supply.
4) At max. motor cable length 30 m, pulse frequency 4 kHz and DC link voltage 540 … 600 V.

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Technical specifications (continued)

Article No.		6SL3120-1TE24-5AA3	6SL3120-1TE26-0AA3	6SL3120-1TE28-5AA3	6SL3120-1TE31-3AA3	6SL3120-1TE32-0AA4
Product designation		Single Motor Module in booksize format with internal air cooling				
Article No.		6SL3121-1TE24-5AA3	6SL3121-1TE26-0AA3	6SL3121-1TE28-5AA3	6SL3121-1TE31-3AA3	6SL3121-1TE32-0AA4
Product designation		Single Motor Module in booksize format with external air cooling				
Product brand name		SINAMICS				
Product type designation		S120				
DC link voltage 510 … 720 V DC						
Motor connection U2, V2, W2		M6 screw studs (X1)	M6 screw studs (X1)	M8 screw studs (X1)	M8 screw studs (X1)	M8 screw studs (X1)
• Conductor cross-section, maximum	mm^2	2.5 … 50	2.5 … 50	2.5 … 95, 2 × 35	2.5 … 120, 2 × 50	2.5 … 120, 2 × 50
Shield connection		See Accessories	See Accessories	See Accessories	See Accessories	See Accessories
PE connection		M6 screw	M6 screw	M6 screw	M8 screw	M8 screw
Motor brake connection		Plug-in connector (X11), 24 V DC, 2 A	Plug-in connector (X11), 24 V DC, 2 A	Plug-in connector (X11), 24 V DC, 2 A	Plug-in connector (X11), 24 V DC, 2 A	Plug-in connector (X11), 24 V DC, 2 A
Motor cable length, maximum						
• Shielded	m	100	100	100	100	100
• Unshielded	m	150	150	150	150	150
Degree of protection		IP20	IP20	IP20	IP20	IP20
Width	mm	150	150	200	300	300
Height	mm	380	380	380	380	380
• With fan[1)]	mm	–	–	–	629	629
Depth						
• With internal air cooling	mm	270	270	270	270	270
• With external air cooling, on/behind mounting surface	mm	226/71	226/71	226/92	226/82	226/82
Net weight						
• With internal air cooling	kg	9	9	15	21	21
• With external air cooling	kg	13.2	13.4	17.2	27.2	30

[1)] The fan is supplied with the Motor Module and must be installed before the Motor Module is commissioned.