

SINAMICS S120 drive system

Chassis format

Motor-side power components for chassis format > dv/dt filters plus VPL

Selection and ordering data

Suitable for Power Module		Suitable for Motor Module		Type rating at 400 V, 50 Hz (460 V, 60 Hz)/ 690 V, 50 Hz (575 V, 60 Hz)	Rated output current	dv/dt filter plus VPL
Air-cooled	Liquid-cooled	Air-cooled	Liquid-cooled	kW (hp)	A	Article No.
Line voltage 380 ... 480 V 3 AC						
6SL3310-1TE32-1AA3	6SL3315-1TE32-1AA3	6SL3320-1TE32-1AA3	6SL3325-1TE32-1AA3	110 (150)	210	6SL3000-2DE32-6AA0
6SL3310-1TE32-6AA3	6SL3315-1TE32-6AA3	6SL3320-1TE32-6AA3	6SL3325-1TE32-6AA3	132 (200)	260	
6SL3310-1TE33-1AA3	6SL3315-1TE33-1AA3	6SL3320-1TE33-1AA3	6SL3325-1TE33-1AA3	160 (250)	310	6SL3000-2DE35-0AA0
6SL3310-1TE33-8AA3	–	6SL3320-1TE33-8AA3	–	200 (300)	380	
6SL3310-1TE35-0AA3	6SL3315-1TE35-0AA3	6SL3320-1TE35-0AA3	6SL3325-1TE35-0AA3	250 (400)	490	
–	–	6SL3320-1TE36-1AA3	6SL3325-1TE36-1AA3	315 (500)	605	6SL3000-2DE38-4AA0
–	–	6SL3320-1TE37-5AA3	6SL3325-1TE37-5AA3	400 (600)	745	
–	–	6SL3320-1TE38-4AA3	6SL3325-1TE38-4AA3	450 (700)	840	
–	–	6SL3320-1TE41-0AA3	6SL3325-1TE41-0AA3	560 (800)	985	6SL3000-2DE41-4AA0
–	–	6SL3320-1TE41-2AA3	6SL3325-1TE41-2AA3	710 (1000)	1260	
–	–	6SL3320-1TE41-4AA3	6SL3325-1TE41-4AA3	800 (1150)	1405	
			6SL3325-1TE41-4AS3 ¹⁾	800 (1000)	1330	
Line voltage 500 ... 690 V 3 AC						
–	–	6SL3320-1TG28-5AA3	–	75 (75)	85	6SL3000-2DH31-0AA0
–	–	6SL3320-1TG31-0AA3	6SL3325-1TG31-0AA3	90 (75)	100	
–	–	6SL3320-1TG31-2AA3	–	110 (100)	120	6SL3000-2DH31-5AA0
–	–	6SL3325-1TG31-5AA3	6SL3320-1TG31-5AA3	132 (150)	150	
–	–	6SL3320-1TG31-8AA3	–	160 (150)	175	6SL3000-2DH32-2AA0
–	–	6SL3320-1TG32-2AA3	6SL3325-1TG32-2AA3	200 (200)	215	
–	–	6SL3320-1TG32-6AA3	–	250 (250)	260	6SL3000-2DH33-3AA0
–	–	6SL3320-1TG33-3AA3	6SL3325-1TG33-3AA3	315 (300)	330	
–	–	6SL3320-1TG34-1AA3	–	400 (400)	410	6SL3000-2DH34-1AA0
–	–	6SL3320-1TG34-7AA3	6SL3325-1TG34-7AA3	450 (450)	465	6SL3000-2DH35-8AA0
–	–	6SL3320-1TG35-8AA3	6SL3325-1TG35-8AA3	560 (600)	575	
–	–	6SL3320-1TG37-4AA3	6SL3325-1TG37-4AA3	710 (700)	735	6SL3000-2DH38-1AA0
–	–	6SL3320-1TG38-1AA3	6SL3325-1TG38-0AA3 6SL3325-1TG38-1AA3	800 (800)	810	
–	–	6SL3320-1TG38-8AA3	–	900 (900)	910	6SL3000-2DH41-3AA0
–	–	6SL3320-1TG41-0AA3	6SL3325-1TG41-0AA3	1000 (1000)	1025	
–	–	6SL3320-1TG41-3AA3	6SL3325-1TG41-3AA3	1200 (1250)	1270	

¹⁾ This Motor Module has been specifically designed for loads demanding a high dynamic performance.

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Technical specifications (continued)

Line voltage 500 ... 690 V 3 AC		dv/dt filter plus VPL			
		6SL3000-2DH34-1AA0	6SL3000-2DH35-8AA0	6SL3000-2DH38-1AA0	6SL3000-2DH41-4AA0
I_{th max}	A	410	575	810	1270
Degree of protection		IP00	IP00	IP00	IP00
Cable length, max. between dv/dt filter and motor ¹⁾					
• Shielded	m (ft)	300 (984)	300 (984)	300 (984)	300 (984)
• Unshielded	m (ft)	450 (1476)	450 (1476)	450 (1476)	450 (1476)
Conformity		CE	CE	CE	CE
Certificate of suitability ²⁾		cURus	cURus	cURus	cURus
dv/dt reactor					
Power loss, max.					
• At 50 Hz 500/690 V	kW	0.786	0.862	0.828	0.865
• At 60 Hz 575 V	kW	0.826	0.902	0.867	0.904
• At 150 Hz 500/690 V	kW	0.884	0.964	0.927	0.966
Connections					
• To the Power Module/ Motor Module		1 × hole for M12	1 × hole for M12	2 × hole for M12	2 × hole for M12
• To load		1 × hole for M12	1 × hole for M12	2 × hole for M12	2 × hole for M12
• PE		M6 screw	M6 screw	M6 screw	M6 screw
Dimensions					
• Width	mm (in)	460 (18.1)	460 (18.1)	445 (17.5)	445 (17.5)
• Height	mm (in)	385 (15.2)	385 (15.2)	385 (15.2)	385 (15.2)
• Depth	mm (in)	312 (12.3)	312 (12.3)	312 (12.3)	312 (12.3)
Weight, approx.	kg (lb)	147 (324)	172 (379)	160 (353)	164 (362)
Voltage Peak Limiter (VPL)					
Power loss, max.					
• At 50 Hz 500/690 V	kW	0.051	0.063	0.106	0.15
• At 60 Hz 575 V	kW	0.048	0.059	0.1	0.14
• At 150 Hz 500/690 V	kW	0.043	0.054	0.091	0.128
Connections					
• To dv/dt reactor		1 × hole for M8	1 × hole for M8	1 × hole for M10	1 × hole for M10
• To DC link		1 × hole for M8	1 × hole for M8	1 × hole for M10	1 × hole for M10
• PE		M8 stud	M8 stud	M8 stud	M8 stud
Dimensions					
• Width	mm (in)	309 (12.2)	309 (12.2)	309 (12.2)	309 (12.2)
• Height	mm (in)	1313 (51.7)	1313 (51.7)	1313 (51.7)	1313 (51.7)
• Depth	mm (in)	400 (15.7)	400 (15.7)	400 (15.7)	400 (15.7)
Weight, approx.	kg (lb)	48 (106)	48 (106)	72 (159)	73 (161)
Suitable for Motor Module (Type rating)		6SL3320-1TG34-1AA3 (400 kW)	6SL3320-1TG34-7AA3 (450 kW) 6SL3325-1TG34-7AA3 (450 kW) 6SL3320-1TG35-8AA3 (560 kW) 6SL3325-1TG35-8AA3 (560 kW)	6SL3320-1TG37-4AA3 (710 kW) 6SL3325-1TG37-4AA3 (710 kW) 6SL3320-1TG38-1AA3 (800 kW) 6SL3325-1TG38-0AA3 (800 kW) 6SL3325-1TG38-1AA3 (800 kW)	6SL3320-1TG38-8AA3 (900 kW) 6SL3320-1TG41-0AA3 (1000 kW) 6SL3325-1TG41-0AA3 (1000 kW) 6SL3320-1TG41-3AA3 (1200 kW) 6SL3325-1TG41-3AA3 (1200 kW)

Note:

For powers above 560 kW (380 ... 480 V) or 710 kW (500 ... 690 V), then a filter contains two dv/dt reactors.

The technical specifications listed refer to a dv/dt reactor.
For additional information on dv/dt filters, please refer to the [SINAMICS Low Voltage Engineering Manual](#).

¹⁾ Longer cable lengths for specific configurations are available on request.

²⁾ Only for line voltages 500 ... 600 V 3 AC.