

SINAMICS G150

Drive converter cabinet units

75 kW to 1500 kW

Technical specifications (continued)

Line voltage 500 ... 600 V 3 AC	SINAMICS G150 drive converter cabinet units 6SL3710-1GF									
		31-8...	32-2...	32-6...	33-3...	34-1...	34-7...	35-8...	37-4...	38-1...
Type rating										
• with I_L at 50 Hz 500 V ¹⁾	kW	110	132	160	200	250	315	400	500	560
• with I_H at 50 Hz 500 V ¹⁾	kW	90	110	132	160	200	250	315	450	500
• with I_L at 60 Hz 575 V ²⁾	hp	150	200	250	300	400	450	600	700	800
• with I_H at 60 Hz 575 V ²⁾	hp	150	200	200	250	350	450	500	700	700
Output current										
• Rated current I_{rated}	A	175	215	260	330	410	465	575	735	810
• Base load current I_L ³⁾	A	171	208	250	320	400	452	560	710	790
• Base load current I_H ⁴⁾	A	157	192	233	280	367	416	514	657	724
Input current										
• Rated input current ⁵⁾	A	191	224	270	343	426	483	598	764	842
• Input current, max.	A	279	341	410	525	655	740	918	1164	1295
• Current requirement auxiliary supply 24 V DC ⁶⁾	A	1.35	1.35	1.35	1.4	1.4	1.4	1.4	1.5	1.5
Power loss										
	kW	3.8	4.2	5.0	6.1	8.1	7.8	8.7	12.7	14.1
Cooling air requirement m ³ /s										
		0.36	0.36	0.36	0.36	0.78	0.78	0.78	1.48	1.48
Cable lengths between converter and motor ⁸⁾										
• Shielded	m	300	300	300	300	300	300	300	300	300
• Unshielded	m	450	450	450	450	450	450	450	450	450
Sound pressure level L_{pA} (1 m) at 50/60 Hz										
	dB	69/73	69/73	69/73	69/73	72/75	72/75	72/75	72/75	72/75
Dimensions										
• Width for version A/C	mm	800/400	800/400	800/400	800/400	1200/600	1200/600	1200/600	1600/1000	1600/1000
• Height ⁷⁾	mm	2000	2000	2000	2000	2000	2000	2000	2000	2000
• Depth	mm	600	600	600	600	600	600	600	600	600
Weight (without options) for version A/C, approx.										
	kg	390/300	390/300	390/300	390/300	860/670	860/670	860/670	1320/940	1360/980

Note: The type rating data in hp units are based on the NEC/CEC standards for the North American market.

¹⁾ Rated output of a typ. 6-pole standard induction motor based on I_L or I_H at 500 V 3 AC 50 Hz.

²⁾ Rated output of a typ. 6-pole standard induction motor based on I_L or I_H at 575 V 3 AC 60 Hz.

³⁾ The base load current I_L is based on a load cycle of 110 % for 60 s or 150 % for 10 s with a load cycle period of 300 s. See technical specifications (→ Overload capacity).

⁴⁾ The base load current I_H is based on a load cycle of 150 % for 60 s or 160 % for 10 s with a load cycle period of 300 s. See technical specifications (→ Overload capacity).

⁵⁾ The current values given here are based on the rated output current.

⁶⁾ If the main power supply fails and drive control remains active, the Power Module must be externally supplied with 24 V DC. The following should also be taken into account:

- CU320: 0.8 A
- TM31: 0.5 A
- AOP30: 0.2 A
- SMC: 0.6 A

– Current requirement of digital inputs/outputs.

⁷⁾ Version A: The cabinet height is increased by 250 mm for degree of protection IP21, 400 mm for degrees of protection IP23, IP43 and IP54, 405 mm for the **M13** and **M78** options.
Version C: The cabinet height is increased by 250 mm for degree of protection IP21, 400 mm for degrees of protection IP23, IP43 and IP54.

⁸⁾ Longer cable lengths for specific configurations are available on request.