

G120C release with footprint mounted Class B line filters

SINAMICS G120C Class B line filters

[FAQ-0G6H7VPJ](#) • 06/2016

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1 G120C release with footprint mounted Class B line filters.

The G120C Unfiltered (industrial) variable speed drive is now released with the Class B (Category C1) footprint mounted line filter module.

The following drives may be used with the corresponding line filter to achieve Class B (Category C1) conducted emission compliance, and Class A radiated (Category C2) radiated emission, requirements.

Frame Size	Inverter Power	Inverter MLFB	Filter MLFB	Screened cable length at 4kHz pulse frequency	Screened cable length at 16kHz pulse frequency.
		6SL3210-	6SL3203-		
FSAA	0.55kW	1KE11-8UX2	0BE17-7BA0	50m	-
	0.75kW	1KE12-3UX2			
	1.1kW	1KE13-2UX2			
	1.5kW	1KE14-3UX2			
	2.2kW	1KE15-8UX2			
FSA	0.55kW	1KE11-8UX1		25m	-
	0.75kW	1KE12-3UX1			
	1.1kW	1KE13-2UX1			
	1.5kW	1KE14-3UX1			
	2.2kW	1KE15-8UX1			
	4.0kW	1KE18-8UX1			
FSB	5.5kW	1KE21-3UX1	0BE21-8BA0	50m	50m (with additional ferrite)
	7.5kW	1KE21-7UX1			
FSC	11kW	1KE22-6UX1	0BE23-8BA0	50m (with additional ferrite)	-
	15kW	1KE23-2UX1			
	18.5kW	1KE23-8UX1			
		X= Communication variant, B,P,F or C (where applicable).			

NOTE

The recommended ferrite from Wurth Elektronik GmbH (Part No: 74270095) or equivalent should be fitted as described in the attached installation instructions.

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2 EMC Directive

In the Standard EN 61800-3 of July 2005, a distinction is no longer made between "general availability" and "restricted availability". Instead, different categories C1 to C4 have been defined in accordance with the environment of the PDS at the operating location:

- **Category C1:**
Drive systems for rated voltages < 1000 V for use in the first environment
- **Category C2:**
Stationary drive systems not connected by means of a plug connector for rated voltages < 1000 V. When used in the first environment, the system must be installed and commissioned by personnel familiar with EMC requirements. A warning note is required.
- **Category C3:**
Drive systems for rated voltages < 1000 V for exclusive use in the second environment. A warning note is required.
- **Category C4:**
Drive systems for rated voltages ≥ 1000 V or for rated currents ≥ 400 A or for use in complex systems in the second environment. An EMC plan must be created.