SINAMICS G120C

Product Data Sheet

6SL3210-1KE18-8AF1

4 kW Compact Frequency Converter

SUPPLY PHASES	RATED LINE VOLTAGE	SUPPLY TOLERANCE	SUPPLY FREQUENCY
3 AC	**380 to 480 V**	**-20% to +10%**	**47 to 63 Hz**

Siemens 6SL3210-1KE18-8AF1 is the SINAMICS G120C compact frequency converter with a PROFINET interface and integrated Class A filter. It is rated for a three-phase 380 to 480 V supply with -20% to +10% tolerance at 47 to 63 Hz. The catalog identifies 4 kW low-overload and 3 kW high-overload duty ratings.

01 TECHNICAL DATA

Supply phases	3 AC
Rated line voltage	380 to 480 V
Supply tolerance	-20% to +10%
Supply frequency	47 to 63 Hz
Low-overload rated power	4 kW
High-overload rated power	3 kW
Low-overload short duty	150% for 3 s
High-overload short duty	200% for 3 s
Digital inputs	6
Digital outputs	2

Siemens SINAMICS G120C 6SL3210-1KE18-8AF1 exact-model Data Sheet; rated electrical data pages 1-2.

02 ADDITIONAL PRODUCT DATA

Analog inputs	1
Analog outputs	1
Fieldbus	PROFINET
EMC filter	Integrated Class A
Protection rating	IP20 / UL open type

03 PRODUCT FUNCTION

The converter integrates six digital inputs, two digital outputs, one analog input and one analog output, together with Safe Torque Off. Its FSA enclosure has IP20/UL open-type protection and requires the corresponding protected installation. The specified overload cycles differ between the two duty classes, so motor selection must use the intended duty rather than the headline power alone.

04 SYSTEM COMPATIBILITY

Provide three-phase 380 to 480 V input within the specified tolerance and follow the G120C protective-earth, line and motor wiring instructions. Integrate the six digital inputs, two digital outputs and analog channels using the configured terminal functions. Keep the STO circuit distinct from ordinary control commands and validate it under the applicable safety instructions.

05 REFERENCE

Siemens SINAMICS G120C 6SL3210-1KE18-8AF1 exact-model Data Sheet; rated electrical data pages 1-2.

AMIKON PRODUCT SUPPORT

+86-18020776786 INFO@AMIKON.CN **AMIKONG.COM**