

Data sheet for SINAMICS G120P Cabinet



MLFB-Ordering data: 6SL3710-1PE41-0AA0-Z **
K74+K83+K96+L13+L26+L45+L50+L57+L84+L86+M07+Q82

Client order no.:
Order no.:
Offer no.:
Remarks:

Item no.:
Consignment no.:
Project:

Rated data	
Input	
Supply frequency	47...63 Hz
Supply voltage	400 V ±10%
Rated input current	1061.0 A
Max. current	1402 A
Pulse number	6
Energy recovery capability	No (2Q)
Output:	
Output voltage	400 V
Rated power (LO) in kW	560 kW
Rated power (HO) in kW	450 kW
Rated output current	1021.0 A
Rated output current (LO)	1000 A
Rated output current (HO)	786 A
Output current Max	1350 A
Pulse frequency (nominal)	2.00 kHz

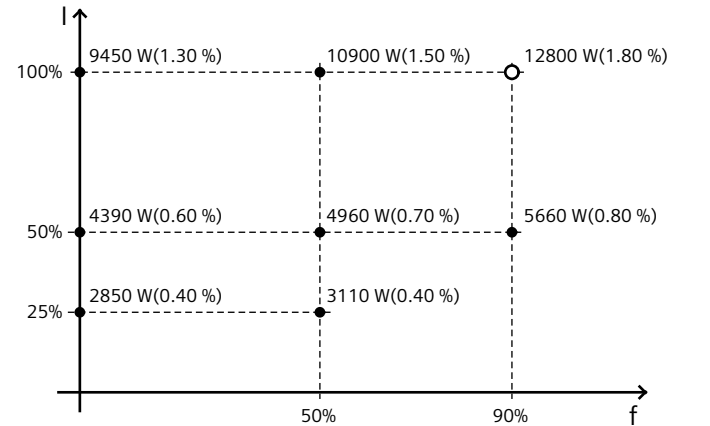
Basic data:	
Absolute power loss in stand-by	243 W
Sound pressure level L _{pA} (1 m)	69 dB
Conductor cross section, max. (IEC)	4 x 240 mm ²
Degree of protection	IP20
Installation envelope dimensions (H x W x D)	2500 mm x 1200 mm x 600 mm
Weight approx.	681 kg
Frame size	FSJX
Design	A
Color, paint shade	RAL7035
Compliance with standards	CE, RCM, EAC

Environmental conditions	
Installation altitude	1000 m
Coolant	Air
Coolant requirement, air	0.70 m³/s
Ambient temperature	0 °C - +40 °C

Converter losses to IEC61800-9-2*	
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Efficiency classIE2

Comparison with the reference converter (90% / 100%)44.3 %



The percentage values show the losses in relation to the rated apparent power of the converter.

The diagram shows the losses for the points (as per standard IEC61800-9-2) of the relative torque generating current (I) over the relative motor stator frequency(f). The values are valid for the basic version of the converter including line choke without options/components.

Special design	
K74	Supply of Cabinet internal AC 230 V auxiliary power
K83	Stopp-Category 0 (STO)
K96	Control Unit CU230P-2 PROFINET / EtherNet/IP
L13	Line contactor
L26	Main switch including fuses
L45	EMERGENCY OFF pushbutton, mounted in the cabinet door
L50	Cabinet lighting with service socket outlet
L84	Thermal motor protection device (shutdown/trip)
L86	PT100 evaluation unit
M07	Cable marshalling space 200 mm high, RAL 7035
Q82	Extension of the liability for defects by 24 months to a total of 36 months (3 years) from delivery

*calculated values

**EMC shield rail with PE rail and crane transport aid included in the standard scope of delivery

¹⁾ The L50 and L55 options always require an external supply voltage and may not be supplied via option K74.