

Data sheet for SINAMICS G150



MLFB-Ordering data: **6SL3710-1GH31-2AA3-Z**
K95+L00+L07+L13+L45+L55+L57+M06+M54

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

Item no.:
Consignment no.:
Project:

Rated data	
Input	
Supply frequency	47...63 Hz
Input supply voltage	690 V ±10%
Rated input current	131 A
Max. current	188 A
Pulse number	6
Regenerative capability	No (2Q)
Output:	
Output voltage	690 V
Rated output (LO) in kW	110 kW
Rated power (HO) in kW	90 kW
Rated output current	112 A
Rated output current (LO)	107 A
Rated output current (HO)	100 A
Output current Max	172 A
Pulse frequency (default setting)	1.25 kHz
Basic data:	
Power losses ΔP	2.7 kW
Power loss including options	3.02 kW
Sound pressure level L _{pA} (1 m)	67 dB
Conductor cross section, max. (IEC)	4 x 240 mm²
Degree of protection	IP54
Dimensions (H x W x D)	2500 mm x 800 mm x 600 mm
Weight approx.	460 kg
Frame size	F
Type	A
Color, paint shade	RAL7035
Environmental conditions	
Installation altitude	1000 m
Coolant	Air
Air cooling requirements	0.17 m³/s
Ambient temperature	0 °C - +40 °C

Converter losses to EN 50598-2*																																					
Efficiency class	IE2																																				
Comparison with the reference converter (90% / 100%)	-64.96 %																																				
<table border="1"><thead><tr><th>Relative torque generating current (I)</th><th>Relative motor stator frequency (f)</th><th>Losses (W)</th><th>Losses (%)</th></tr></thead><tbody><tr><td>100%</td><td>100%</td><td>1387 W</td><td>0.97 %</td></tr><tr><td>100%</td><td>50%</td><td>1644 W</td><td>1.15 %</td></tr><tr><td>100%</td><td>90%</td><td>2057 W</td><td>1.44 %</td></tr><tr><td>50%</td><td>100%</td><td>847 W</td><td>0.59 %</td></tr><tr><td>50%</td><td>50%</td><td>941 W</td><td>0.66 %</td></tr><tr><td>50%</td><td>90%</td><td>1075 W</td><td>0.75 %</td></tr><tr><td>25%</td><td>100%</td><td>669 W</td><td>0.47 %</td></tr><tr><td>25%</td><td>50%</td><td>709 W</td><td>0.50 %</td></tr></tbody></table>		Relative torque generating current (I)	Relative motor stator frequency (f)	Losses (W)	Losses (%)	100%	100%	1387 W	0.97 %	100%	50%	1644 W	1.15 %	100%	90%	2057 W	1.44 %	50%	100%	847 W	0.59 %	50%	50%	941 W	0.66 %	50%	90%	1075 W	0.75 %	25%	100%	669 W	0.47 %	25%	50%	709 W	0.50 %
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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 EN 50598) 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.																																					
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Special design																																					
K95	Control Unit kit CU320-2 PN (PROFINET, EtherNet/IP)																																				
L00	Use in the first environment according to EN 61800-3 Category C2 (TN line supplies or TT line supplies with a grounded neutral point)																																				
L07	du/dt filter compact plus Voltage Peak Limiter																																				
L13	Line contactor (for currents <= 800 A for single connection)																																				
L45	EMERGENCY OFF pushbutton, mounted in the cabinet door																																				
L55	Cabinet anti-condensation heating																																				
L57	EMERGENCY OFF Category 0, AC 230 V or 24 V DC																																				
M06	Base 100 mm high, RAL 7022																																				
M54	IP54 degree of protection																																				