

Data sheet for SINAMICS G150



MLFB-Ordering data: **6SL3710-1GH34-7AA3-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		Converter losses to EN 50598-2*																					
Input		Efficiency class IE2																					
Supply frequency	47...63 Hz	Comparison with the reference converter (90% / 100%) -63.08 %																					
Input supply voltage	690 V ±10%	<table><caption>Converter Losses Data (W)</caption><thead><tr><th>Relative Torque (I)</th><th>25% f</th><th>50% f</th><th>90% f</th></tr></thead><tbody><tr><td>100%</td><td>2956 W (0.53 %)</td><td>3108 W (0.56 %)</td><td>8357 W (1.51 %)</td></tr><tr><td>50%</td><td>3708 W (0.67 %)</td><td>4062 W (0.73 %)</td><td>4536 W (0.82 %)</td></tr><tr><td>25%</td><td>6006 W (1.08 %)</td><td>6943 W (1.25 %)</td><td></td></tr></tbody></table> 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.		Relative Torque (I)	25% f	50% f	90% f	100%	2956 W (0.53 %)	3108 W (0.56 %)	8357 W (1.51 %)	50%	3708 W (0.67 %)	4062 W (0.73 %)	4536 W (0.82 %)	25%	6006 W (1.08 %)	6943 W (1.25 %)					
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Rated input current	483 A																						
Max. current	740 A																						
Pulse number	6																						
Regenerative capability	No (2Q)																						
Output:		*converted values																					
Output voltage	690 V																						
Rated output (LO) in kW	450 kW																						
Rated power (HO) in kW	400 kW																						
Rated output current	434 A																						
Rated output current (LO)	422 A	<table><tr><th>Option</th><th>Description</th></tr><tr><td>K95</td><td>Control Unit kit CU320-2 PN (PROFINET, EtherNet/IP)</td></tr><tr><td>L00</td><td>Use in the first environment according to EN 61800-3 Category C2 (TN line supplies or TT line supplies with a grounded neutral point)</td></tr><tr><td>L07</td><td>du/dt filter compact plus Voltage Peak Limiter</td></tr><tr><td>L13</td><td>Line contactor (for currents <= 800 A for single connection)</td></tr><tr><td>L45</td><td>EMERGENCY OFF pushbutton, mounted in the cabinet door</td></tr><tr><td>L55</td><td>Cabinet anti-condensation heating</td></tr><tr><td>L57</td><td>EMERGENCY OFF Category 0, AC 230 V or 24 V DC</td></tr><tr><td>M06</td><td>Base 100 mm high, RAL 7022</td></tr><tr><td>M54</td><td>IP54 degree of protection</td></tr></table>		Option	Description	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
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M54	IP54 degree of protection																						
Rated output current (HO)	388 A																						
Output current Max	678 A																						
Pulse frequency (default setting)	1.25 kHz																						
Basic data:		Special design																					
Power losses ΔP	9.1 kW	K95 Control Unit kit CU320-2 PN (PROFINET, EtherNet/IP)																					
Power loss including options	9.73 kW	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)																					
Sound pressure level L _{pA} (1 m)	72 dB	L07 du/dt filter compact plus Voltage Peak Limiter																					
Conductor cross section, max. (IEC)	4 x 240 mm²	L13 Line contactor (for currents <= 800 A for single connection)																					
Degree of protection	IP54	L45 EMERGENCY OFF pushbutton, mounted in the cabinet door																					
Dimensions (H x W x D)	2500 mm x 1200 mm x 600 mm	L55 Cabinet anti-condensation heating																					
Weight approx.	780 kg	L57 EMERGENCY OFF Category 0, AC 230 V or 24 V DC																					
Frame size	H	M06 Base 100 mm high, RAL 7022																					
Type	A	M54 IP54 degree of protection																					
Color, paint shade	RAL7035																						
Environmental conditions																							
Installation altitude	1000 m																						
Coolant	Air																						
Air cooling requirements	0.78 m³/s																						
Ambient temperature	0 °C - +40 °C																						