

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS

Motor type: GP100 FS: 254T - 4p - 15 hp -

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data without

U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque	T _A /T _N	T _k /T _N
						4/4	3/4	1/2	0	4/4		3/4	2/4	4/4	3/4	2/4	[lb-ft]	LRT [%]	BDT [%]	
460	Y	60	15.00	11.00	1,770	19.00	15.20	11.80	8.50	116.0	92.4	92.8	92.3	80.0	74.7	64.5	44.0	184	234	
230	YY	60	15.00	11.00	1,770	38.00	30.39	23.59	17.00	232.0	92.4	92.8	92.3	80.0	74.7	64.5	44.0	184	234	

Frame Type: 254T	Type of constr.: (A) Foot mounted - End shield	Ins. Cl.:Standard Class F Insulation	Motor Prot.:(A) Without Protection	NEMA Des.: B	S.F.: 1.15
Mtr. WT:242		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: G	I.P.: 55

Mechanical data

Sound level (SPL / SWL) at 60 Hz				61.0 dB(A) / 73.0 dB(A)				Thickener		Polyurea							
Octave Band Center Frequencies Hertz								Safe Stall Time Hot				21 s					
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold				33 s					
SPL@3	47.0	53.0	59.0	56.0	47.0	38.0	dB(A)	Frame material				cast iron					
Moment of inertia					1.7 Lb-ft²							Color, paint shade		Standard Paint - RAL7030			
Ext Load Inertia Capability:					75.0 Lb ft²							Coating (paint finish)		Standard Alkyed + Epoxy (C2)			
Bearings														Ventilation Type			
Bearing DE NDE			6209 ZZ C3 S0			6209 ZZ C3 S0			Method of cooling				TEFC				
Bearing_Type			Ball Bearing			Ball Bearing			Direction of rotation				Bidirectional				
AFBMA:			45BC02JPP30			45BC02JPP30			Fan Material				Polypropylen				
Grease														VFD		CT: 4:1 VT: 20:1	
Capacity				0.50 oz				0.50 oz				Space heaters				without	
Grease Type:				Exxon Mobile EM										Brake:		without	

Terminal box

Lead Wire Connection					9 LEAD - WYE	Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1	L1	L1	Connected together		Material of terminal box	Aluminium
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6		Cable entry	1.25" NPT
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9			

Notes:

I_L/I_N = locked rotor current / current nominal
M_L/M_N = locked rotor torque / torque nominal
M_B/M_N = break down torque / nominal torque

3) Value is valid only for DOL operation with motor design IC411
2) at rated power / at full load

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by		Technical data are subject to change! There may be discrepancies between calculated and actual data before			
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	title 1LE2221-2BB11-6AA3-Z		document number					
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Special design

B09	Export packing sea freight - Siemens standard	F36	Electrical duplicate - (routine test)
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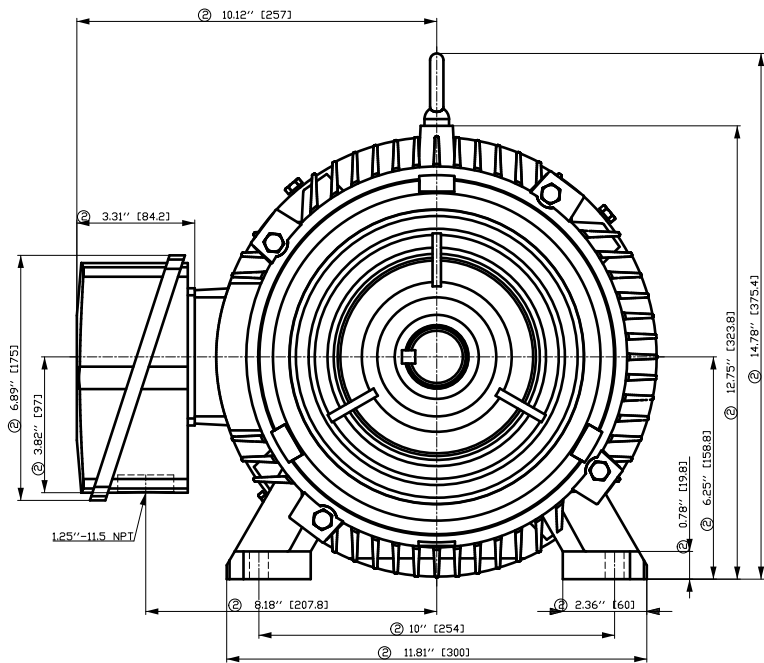
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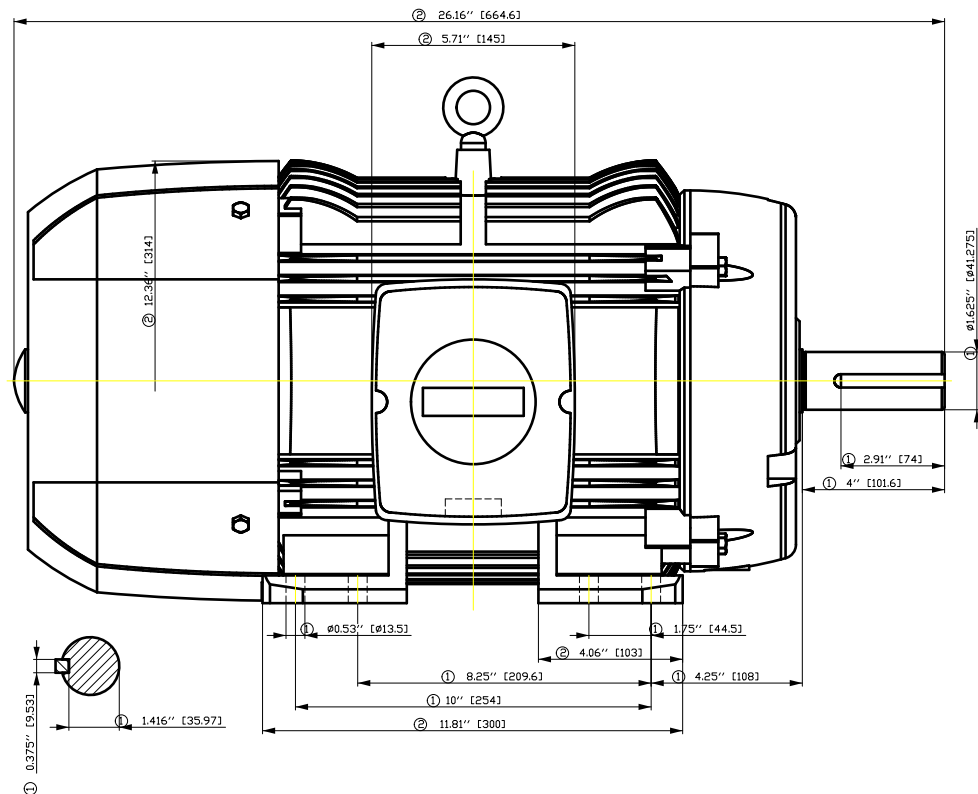
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① Tolerances according to NEMA std.

② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.

③ Not according to NEMA std.

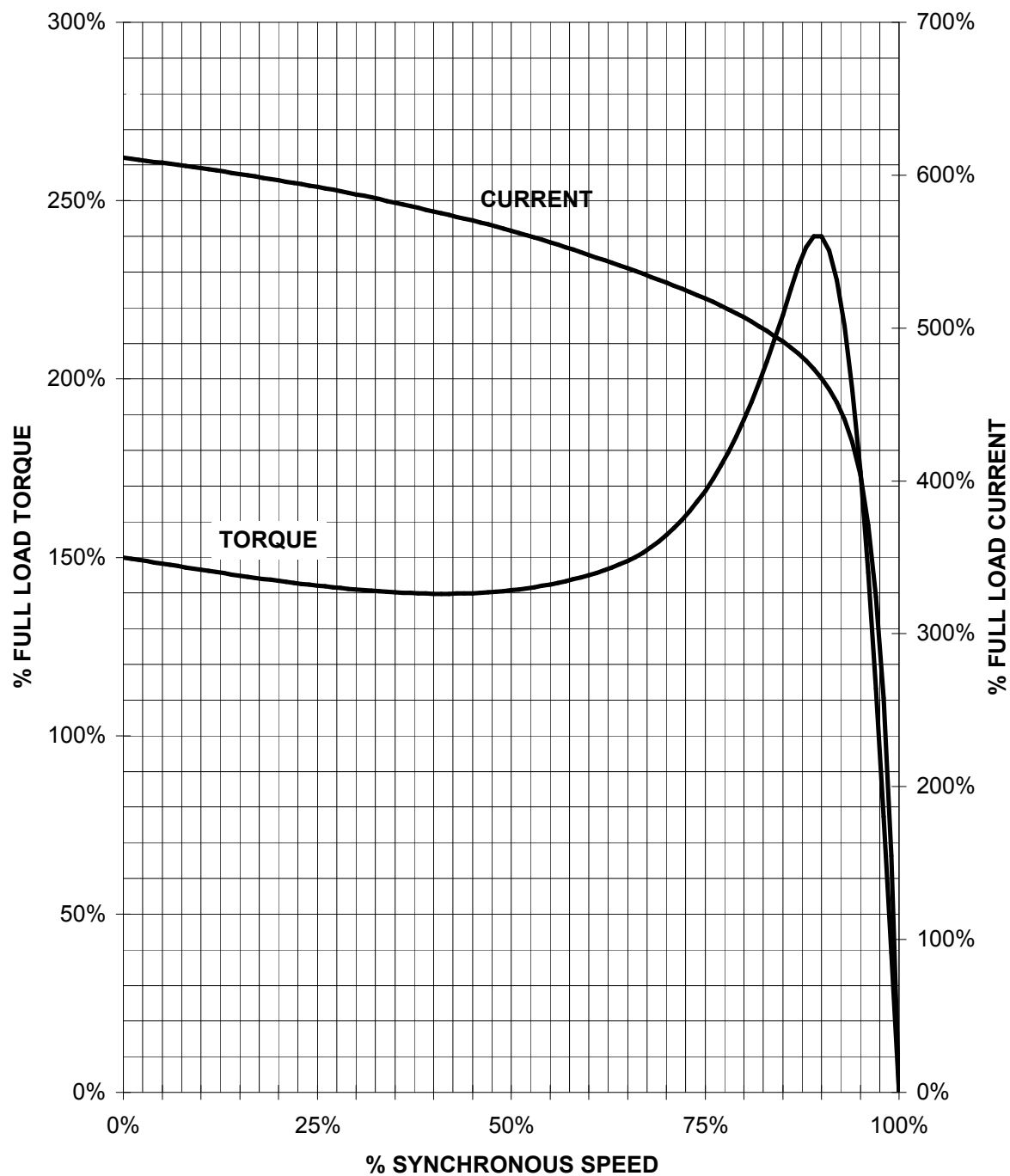


Tolerance	Surface	Material	Weight	Scale
1LE2221-2BB11-6AA3-Z B09+F36	Author Creator Approval Department Change Order	Dimensional drawing Maßzeichnung		
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	Project No	-	Ref No	-

SIEMENS INDUSTRY, INC.

HP 15 VOLTS < 600V RPM 1800 TYPE GP100
HZ 60 PHASE 3 FRAME 254T NEMA B

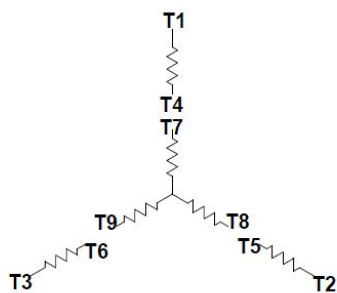
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

PERFORMANCE BASED ON DESIGN CALCULATIONS. SUBJECT TO CHANGE WITHOUT NOTICE.
REV. 1

Main terminal diagram



9 LEAD WYE						
Volts	LINES			CONNECTED TOGETHER	CONN.	
	L1	L2	L3			
LOW	T1 T7	T2 T6	T3 T9	T4 T5 T6	Y Y	
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y	

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Wiring Diagram

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