



Data sheet for three-phase Squirrel-Cage-Motors

Totally Enclosed Fan Cooled (TEFC)

MLFB-Ordering data: 1LE2321-2AB11-4GA3

Motor type: SD100 - NEMA Premium Efficiency

Client order no.:

Order no.:

Offer no.:

Remarks:

Item no.:

Consignment no.:

Project:

U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque [lb-ft]	T _A /T _N	T _k /T _N
						4/4	3/4	1/2	0	4/4		3/4	1/2	4/4	3/4	1/2	LRT [%]		BDT [%]	
460	Y	60	7.50	5.50	1,765	9.70	7.90	6.40	5.00	63.0	91.7	91.7	90.7	78.9	72.3	60.5	22.0	273	455	
230	Y Y	60	7.50	5.50	1,765	19.40	15.89	12.80	10.00	126.0	91.7	91.7	90.7	78.9	72.3	60.5	22.0	273	455	
Frame Type 213TC			Type of constr.: (G) Round body - C-Face							Ins. Cl.: F		Motor Prot.: (A) Without Protection				NEMA Des.: B		S.F.: 1.15		
Mtr WT: 175 lbs			Mounting: (3) F-1, Standard Floor Mount, T. Box LHS							Temp. Rise Cl.: B		Amb. Temp.: +40 to -20 °C @1000 m				kVA: H		IP55		

Mechanical data

WK2

Rotor Moment of Inertia: 1 Lb-ft²

Ext Load Inertia Capability: 39.0 Lb-ft²

Safe Stall Time

Hot: 25.0 s

Cold: 42.0 s

Typical Noise Data

A-weighted Sound

Sound Pressure: 69.0 dB(A)

Sound Power: 57.0 dB(A)

Octave Band Center Frequencies Hertz

	250	500	1000	2000	4000	8000	Hz
SPL@3 feet	37.0	44.0	54.0	53.0	44.0	35.0	dB(A)

Bearings

	DE	NDE
Bearing size:	6208 Z C3 S0	6208 Z C3 S0
Bearing Type:	Ball Bearing	Ball Bearing
AFBMA:	40BC02JP30	40BC02JP30

Grease

Capacity:	0.30	oz	0.30	oz
Type:	Exxon Mobile EM			
Thickener:	Polyurea			

Frame

Frame material:	cast iron
Coating (paint finish):	Standard Paint
Color, paint shade:	RAL 7030

Terminal box

Terminal box position: (3) F-1, Standard Floor Mount, T. Box LHS

Lead Wire Connection

Description:			9 LEAD - WYE		
Voltage	L1	L2	L3	Connected together	
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6	Y Y
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y

Ventilation Type

Type of Cooling:	TEFC
Fan Material:	Polypropylen ESD
Fan Rotation:	Bidirectional

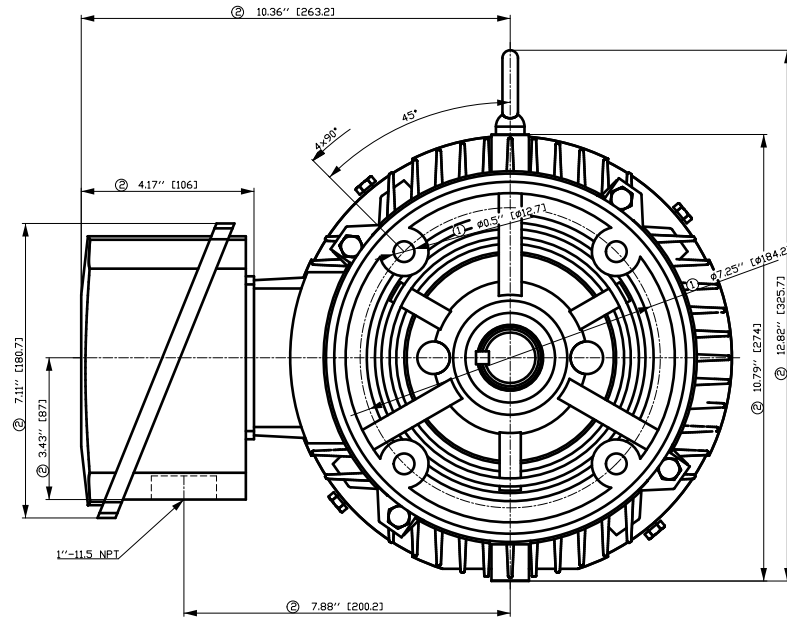
Additional information

VFD Operation:	CT: 20:1	VT: 20:1
Area: classification:	Class I Division 2 Gr. A, B, C or D	

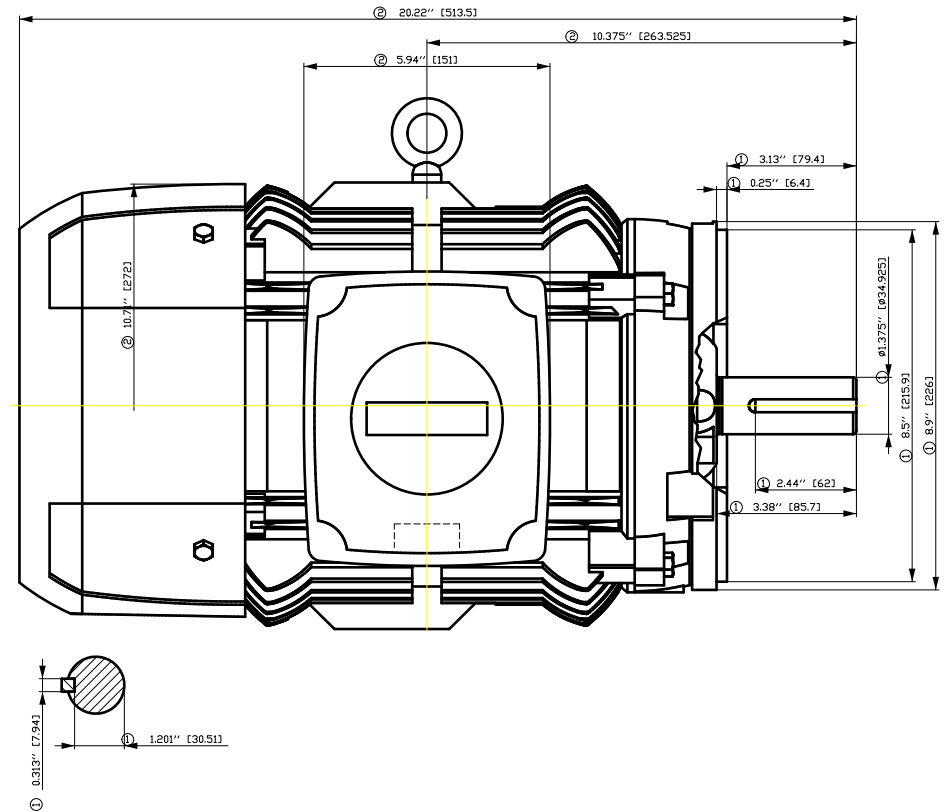
Notes

I_L/I_N = locked rotor current / current nominal T_k/T_N = break down torque / nominal torque
T_k/T_N = locked rotor torque / torque nominal ¹⁾ Value is valid only for DOL operation with motor design IC411

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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-GB 19.
- ③ Not according to NEMA std.

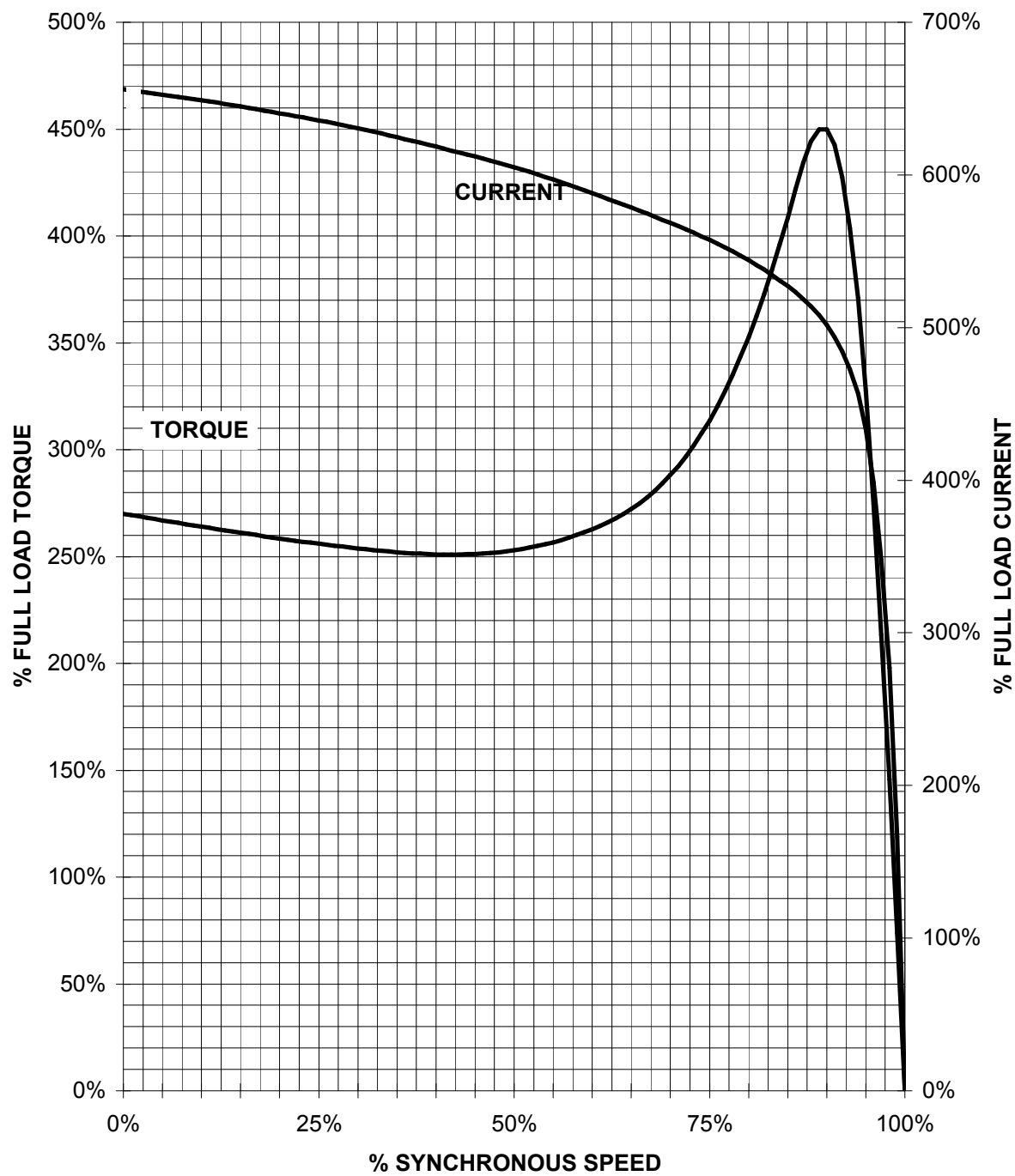


Tolerance	Surface	Material	Weight	Scale
			-	 mm
1LE2321-2AB11-4GA3 -	Author	Dimensional drawing Maßzeichnung		
	Creator DTK			
	Approval			
	Department			
	Change Order	MLFB	Doc. Type	
	Doc. State 9/17/20	Item No	Paper Size	A3
	Revision Index RS	Doc. No	1st Language	en
			2nd Language	de
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HP 7.5 VOLTS < 600V RPM 1800 TYPE SD100
HZ 60 PHASE 3 FRAME 213T NEMA B

TORQUE & CURRENT VS. SPEED

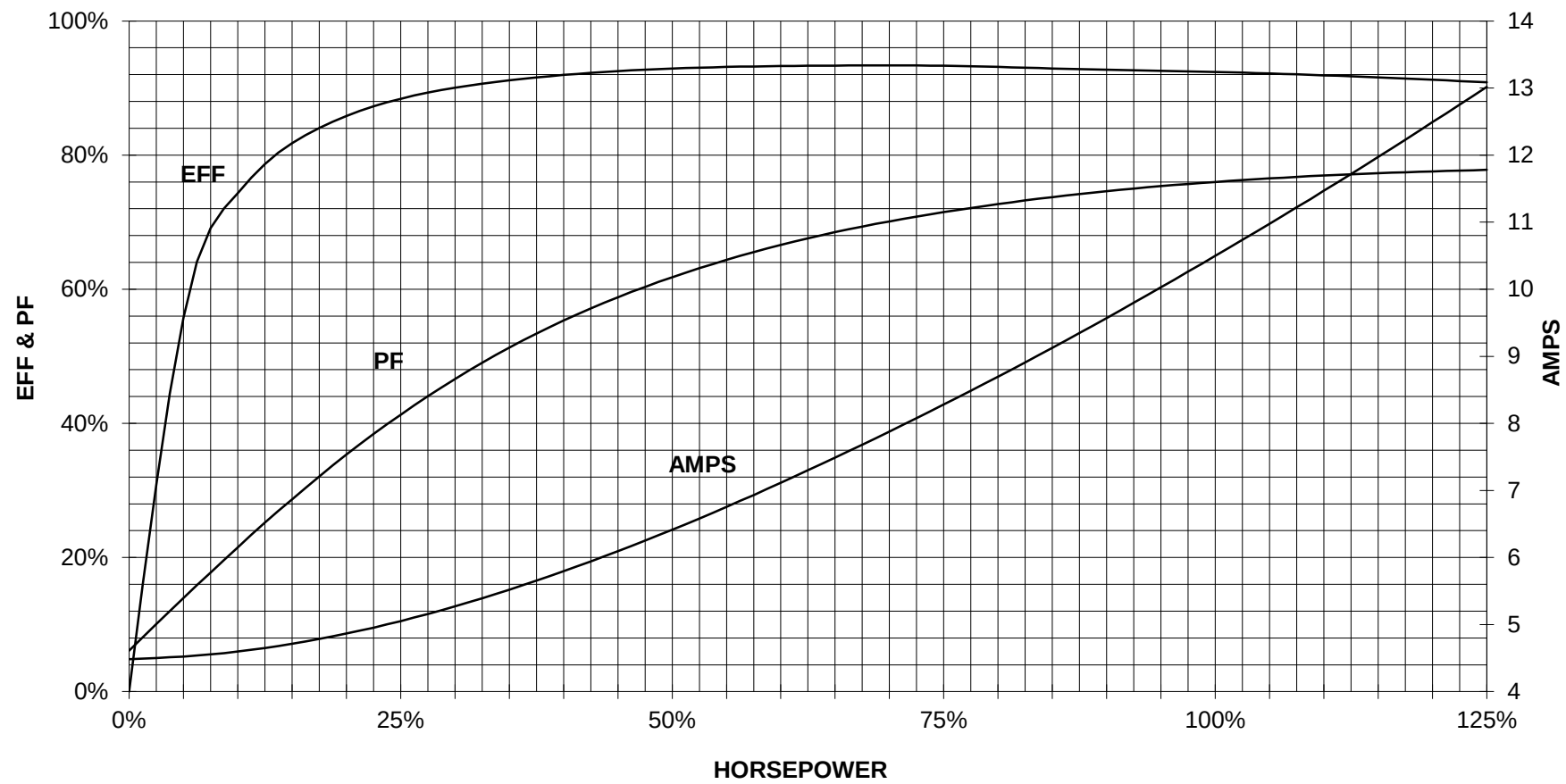


CUSTOMER: _____ ORDER#: _____

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

7.5 HP 1800 RPM 213T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

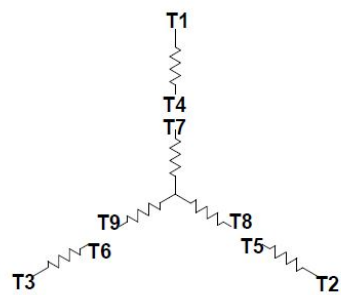
SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100



CUSTOMER _____ ORDER # _____ PO # _____

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

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	

responsible dep.
DI MC LVM

technical reference

created by

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project

SIEMENS

document type
Wiring Diagram

title
1LE2321-2AB11-4GA3

document status
free

document number

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