

Data sheet for three-phase Squirrel-Cage-Motors ABB		
Motor type: (832) LP100 VSS In-Line Thrust FS: 256 LP - 4p - 20 hp -		
Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project
Remarks		

Electrical data	Class I Division 2 Gr. A, B, C or D
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U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque	T _A /T _N	T _k /T _N		
						4/4	3/4	1/2	0	LRC	4/4	3/4	2/4	4/4	3/4	2/4	[lb-ft]	LRT [%]	BDT [%]		
460	Y	60	20.00		1,770	25.00	19.80	15.40	10.50	145.0	93.0	93.4	93.1	80.5	75.9	65.3	60.0	185	240		
230	Y Y	60	20.00		1,770	50.00	39.62	30.80	21.00	290.0	93.0	93.4	93.1	80.5	75.9	65.3	60.0	185	240		
400	Y	50	15.00		1,475	21.30	18.60	15.50	12.60	168.5	91.5	91.3	90.3	81.4	70.2	56.8	53.4	299	348		
200	Y Y	50	15.00		1,475	42.60	37.20	31.00	25.20	337.0	91.5	91.3	90.3	81.4	70.2	56.8	53.4	299	348		
Frame Type: 256 LP			Type of constr.: (T) Vertical P-Base							Motor Prot.: (A) No winding protection						NEMA Des.: B		S.F.: 1.15			
Mtr. WT:342 lbs			Insulation Class.:Class F Insulation							Temp. Rise Cl.: B		Amb. Temp.: + 40 to -20 °C @1000 m						kVA: H		IP IP55	

Mechanical data

Sound level (SPL / SWL) at 60 Hz								61.0 dB(A) / 73.0 dB(A)								Capacity				1.7 oz		1.7 oz															
Octave Band Center Frequencies Hertz								Grease Type:														Exxon Mobile EM															
250 500 1000 2000 4000 8000 Hz								Thickener														Polyurea															
SPL@3								47.0		53.0		59.0		56.0		47.0		38.0		dB(A)																	
Moment of inertia								6.7 Lb-ft²														Safe Stall Time Hot				15 s											
Ext Load Inertia Capability:								102.8 Lb ft²														Safe Stall Time Cold				33 s											
Bearings								Frame material														Cast iron															
Bearing DE NDE								6309 C3 S0						Thrust Ball Bearing(2)		Color, paint shade										Standard Paint - RAL7030											
Bearing_Type								Ball Bearing						AFBMA:		45BC03J30						45BT03MR3		Coating (paint finish)										Standard Alkyed + Epoxy (C2)			
Rated Thrust								Ventilation Type																													
Max Radial force								Method of cooling														TEFC															
Max Down thrust 3yr 1yr								1,501 lbs						2,247 lbs		Direction of rotation										Bi-Directional											
Max momentary up thrust 3yr 1yr								1,534 lbs						2,281 lbs		Fan Material										Plastic											
Grease								VFD														CT: n/a VT: n/a															
								Space heaters														-/-															
								Brake:														-/-															

Terminal box

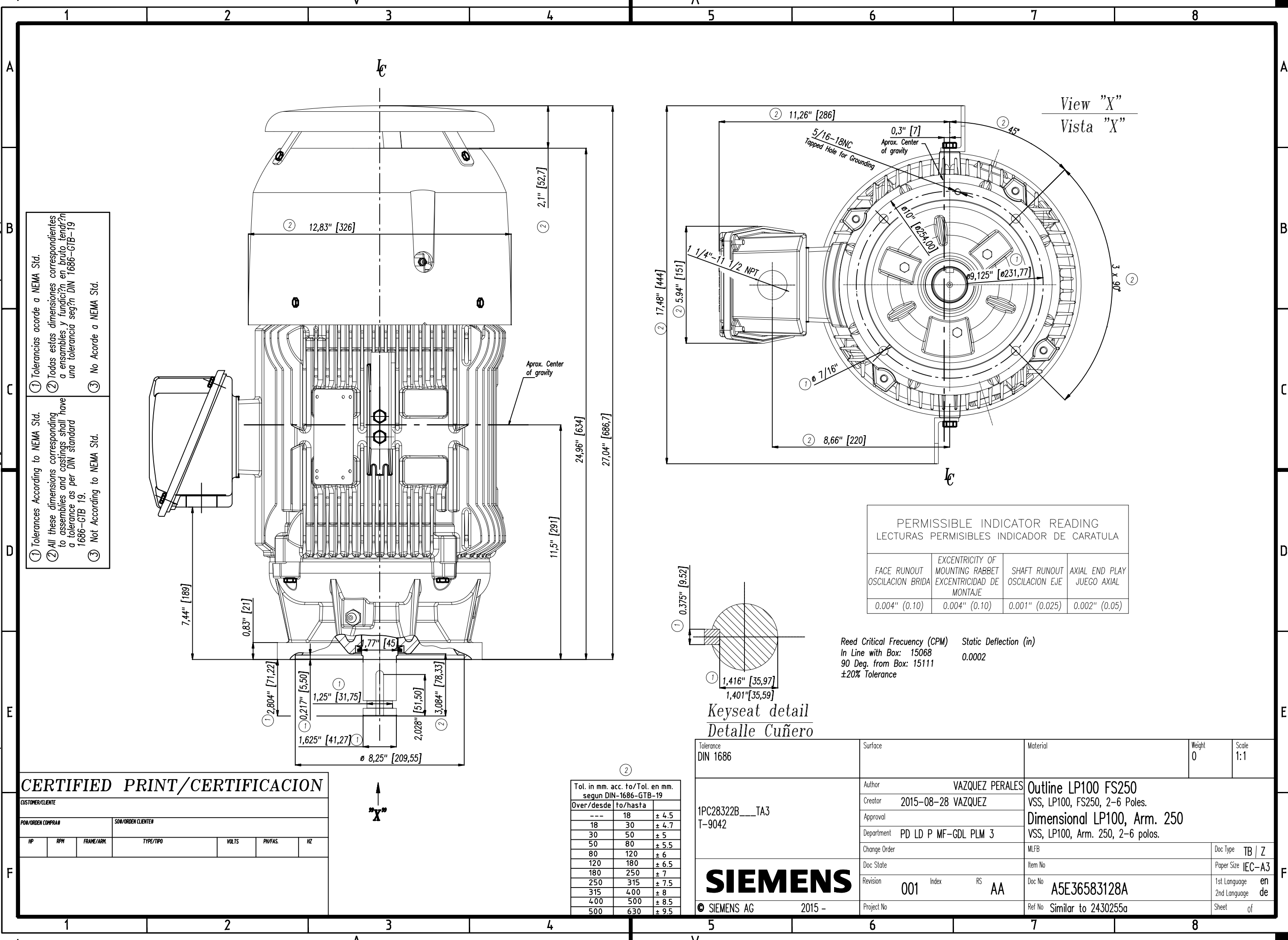
Lead Wire Connection		9 LEAD - WYE			Terminal box position	(3) Mounting - F-1
Voltage	L1	L2	L3	Connected together	Material of terminal box	?PMD_AAC368_001_000_1PC2VX CI?
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6	Cable entry	1.25" NPT
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9		

I_A/I_N = locked rotor current / current nominal
 M_A/M_N = locked rotor torque / torque nominal
 M_K/M_N = break down torque / nominal torque

2) at rated power / at full load

Responsible department IN LVM		Technical reference	Created by SPC	Approved by	Technical data are subject to change! There may be discrepancies			
		Document type Datasheet			Document status Released		customer	
		Document title 1PC2832-2BB61-6TA3			Document number			
© ABB 2024					Revision 01	Creation date 2024-05-25 08:29	Language en	Page 1/1

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PERMISSIBLE INDICATOR READING LECTURAS PERMISIBLES INDICADOR DE CARATULA			
FACE RUNOUT OSCILACION BRIDA	EXCENTRICITY OF MOUNTING RABBIT EXCENTRICIDAD DE MONTAJE	SHAFT RUNOUT OSCILACION EJE	AXIAL END PLAY JUEGO AXIAL
0.004" (0.10)	0.004" (0.10)	0.001" (0.025)	0.002" (0.05)

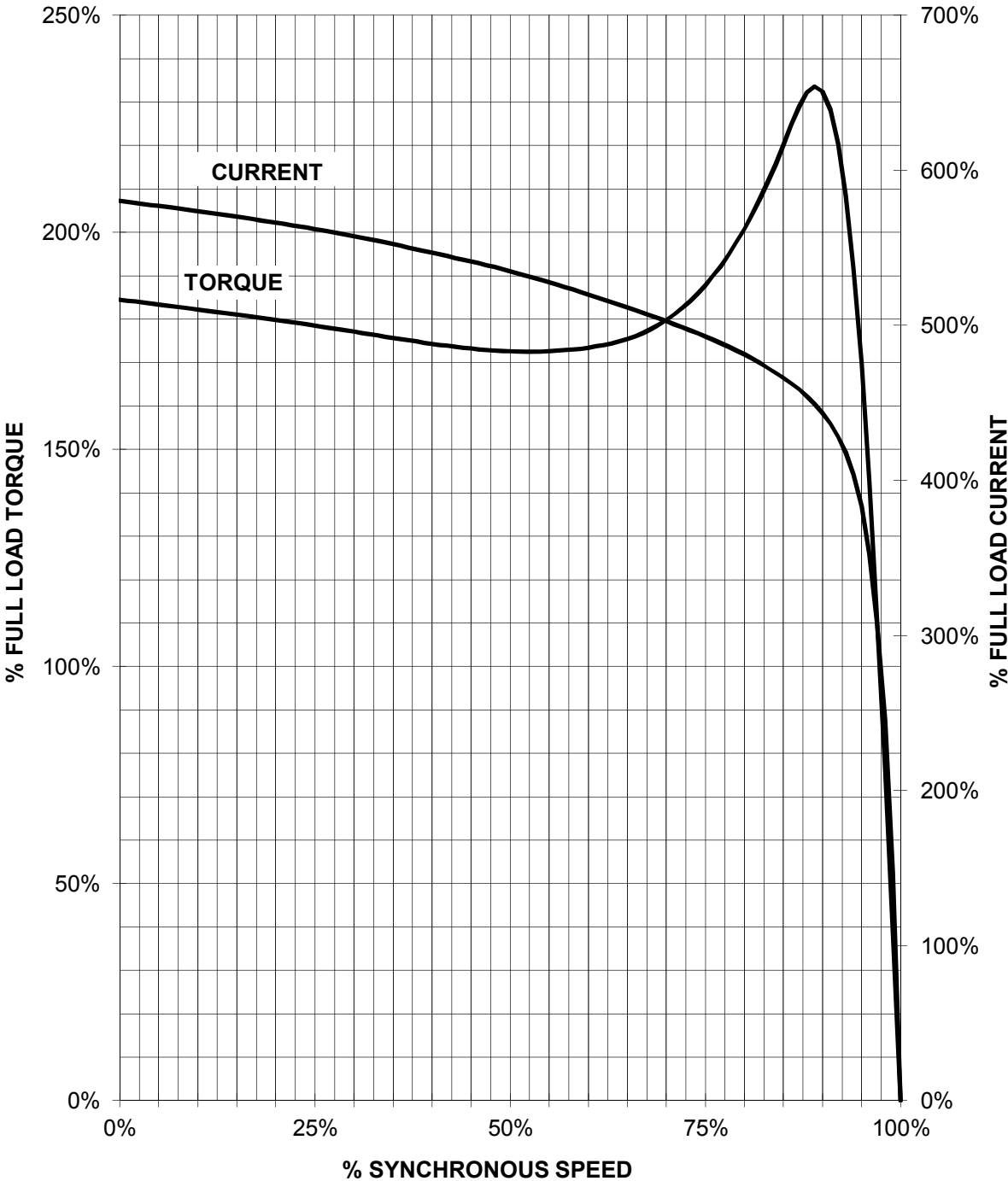
Reed Critical Frequency (CPM)	Static Deflection (in)
In Line with Box: 15068	0.0002
90 Deg. from Box: 15111	
±20% Tolerance	

Tolerance DIN 1686		Surface		Material		Weight 0		Scale 1:1	
1PC28322B____TA3 T-9042		Author VAZQUEZ PERALES		Outline LP100 FS250 VSS, LP100, FS250, 2-6 Poles. Dimensional LP100, Arm. 250 VSS, LP100, Arm. 250, 2-6 polos.					
		Creator 2015-08-28 VAZQUEZ							
		Approval							
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SIEMENS INDUSTRY, INC.

HP 20 VOLTS <600 1800 TYPE LP100
HZ 60 PHASE 3 FRAME 256LP NEMA B

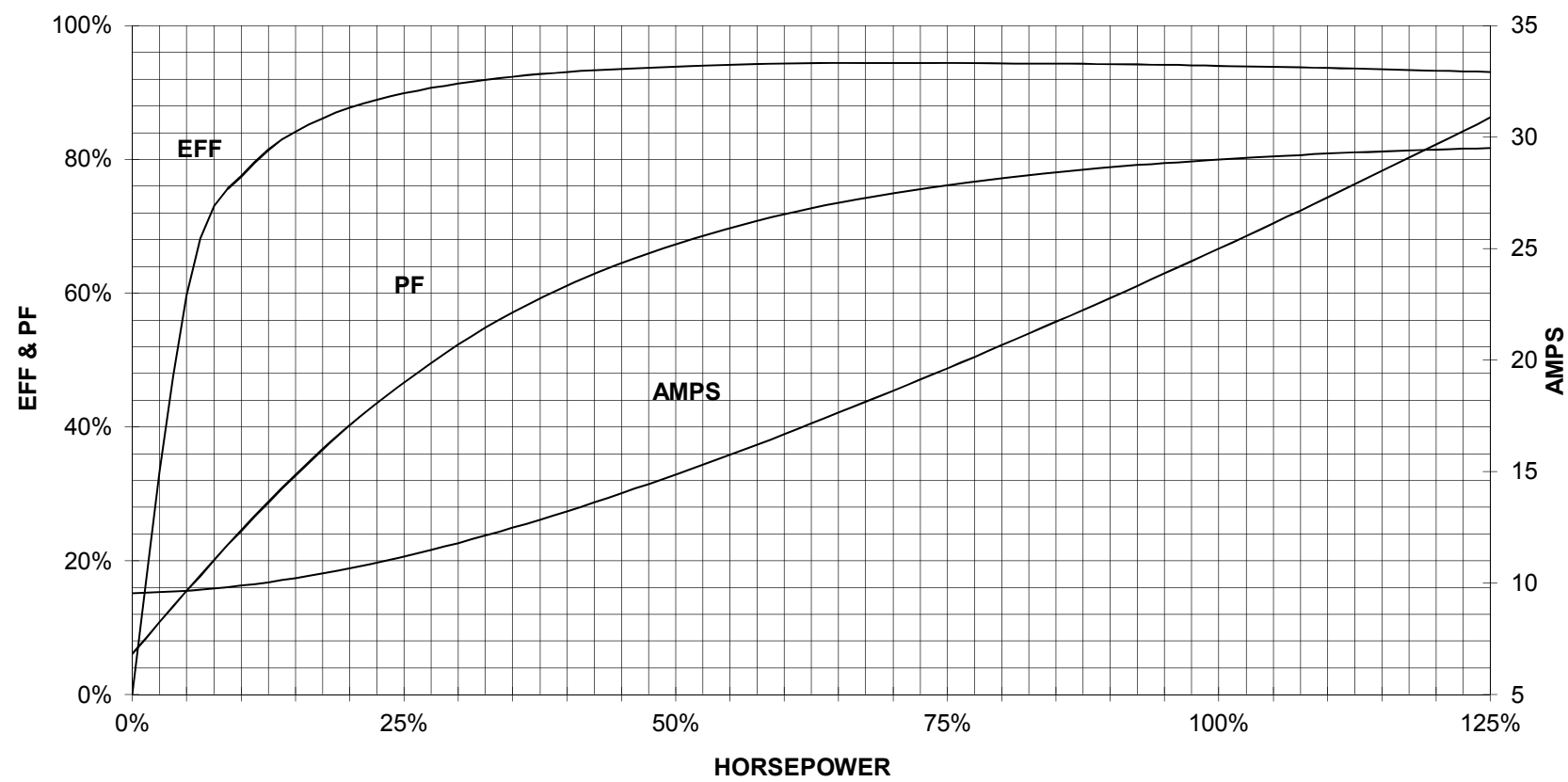
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

20 HP 1800 RPM 256LP FRAME 230/460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
LP100

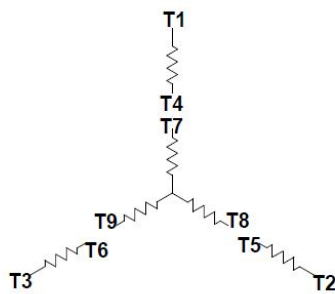


CUSTOMER _____ ORDER # _____ PO # _____

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	T2	T3	T4 T5 T6	YY	
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y	

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Responsible department IN LVM	Technical reference	Created by	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
	Document type Wiring diagramm			Document status Released			
	Document title 1PC2832-2BB61-6TA3			Document number WDS-240525-082929			
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