

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

Motor type: (822) HP100 VSS Normal Thrust FS: 254 HP - 4p - 15 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

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	2/4	4/4	3/4	2/4	LRT [%]		BDT [%]	
460	Y	60	15.00		1,770	19.00	15.20	11.80	11.80	116.0	92.4	92.8	92.3	80.0	74.7	64.5	44.0	185	235	
230	Y Y	60	15.00		1,770	38.00	30.39	23.59	23.60	232.0	92.4	92.8	92.3	80.0	74.7	64.5	44.0	185	235	
400	Y	50	10.00		1,479	16.27	14.01	12.21	10.49	114.0	90.4	89.8	88.0	71.6	62.7	49.0	35.5	260	370	
200	Y Y	50	10.00		1,479	32.54	28.02	24.42	20.98	228.0	90.4	89.8	88.0	71.6	62.7	49.0	35.5	260	370	
Frame Type: 254 HP			Type of constr.: (T) Vertical P-Base										Motor Prot.: (A) No winding protection				NEMA Des.: B		S.F.: 1.15	
Mtr. WT: 315 lbs			Insulation Class.: Class F Insulation							Temp. Rise Cl.: B			Amb. Temp.: + 40 to -20 °C @1000 m				kVA: G		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)								Safe Stall Time Hot				21 s			
Moment of inertia								5.4 Lb-ft²								Safe Stall Time Cold				33 s			
Ext Load Inertia Capability:								78.4 Lb ft²								Frame material				Cast iron			
Bearings																Color, paint shade				Standard Paint - RAL7030			
Bearing DE NDE								6309 C3 S0				6309 C3 S0 DB								Coating (paint finish)		Standard Alkyed + Epoxy (C2)	
Bearing_Type								Ball Bearing				Ball Bearing (2)								Ventilation Type			
AFBMA:								45BC03J30				45BC03J30								Method of cooling		TEFC	
Rated Thrust																				Direction of rotation		Bi-Directional	
Max Radial force								97 lbs												Fan Material		Plastic	
Max Down thrust 3yr 1yr								1,376 lbs				2,052 lbs								VFD		CT: n/a VT: n/a	
Max momentary up thrust 3yr 1yr								1,405 lbs				2,082 lbs								Space heaters		-/-	
Grease																				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					

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 department IN LVM		Technical reference	Created by SPC	Approved by	Technical data are subject to change! There may be discrepancies				
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		Document title 1PC2822-2BB31-6TA3			Document number				
					Revision 01	Creation date 2024-05-19 00:37		Language en	Page 1/1
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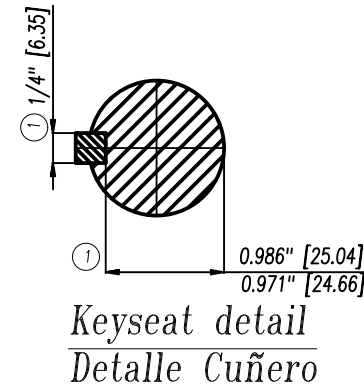
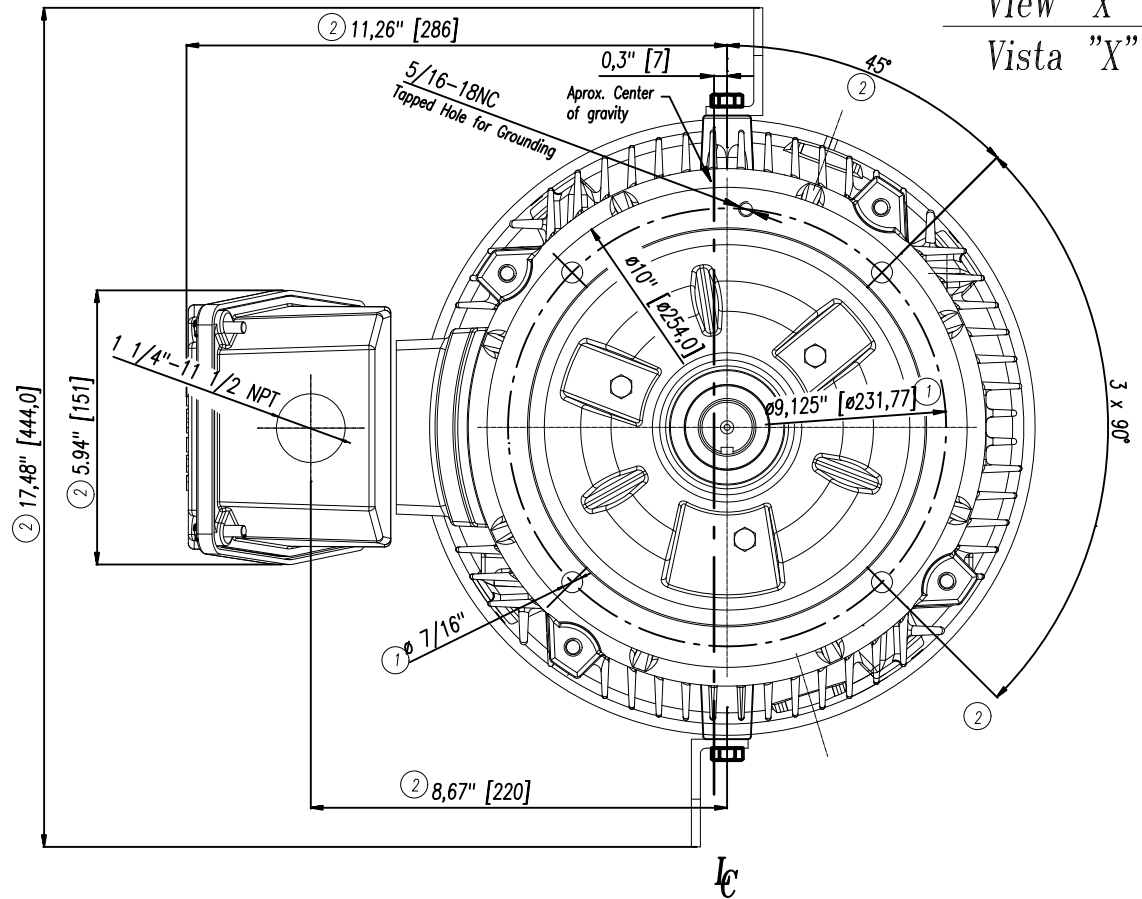
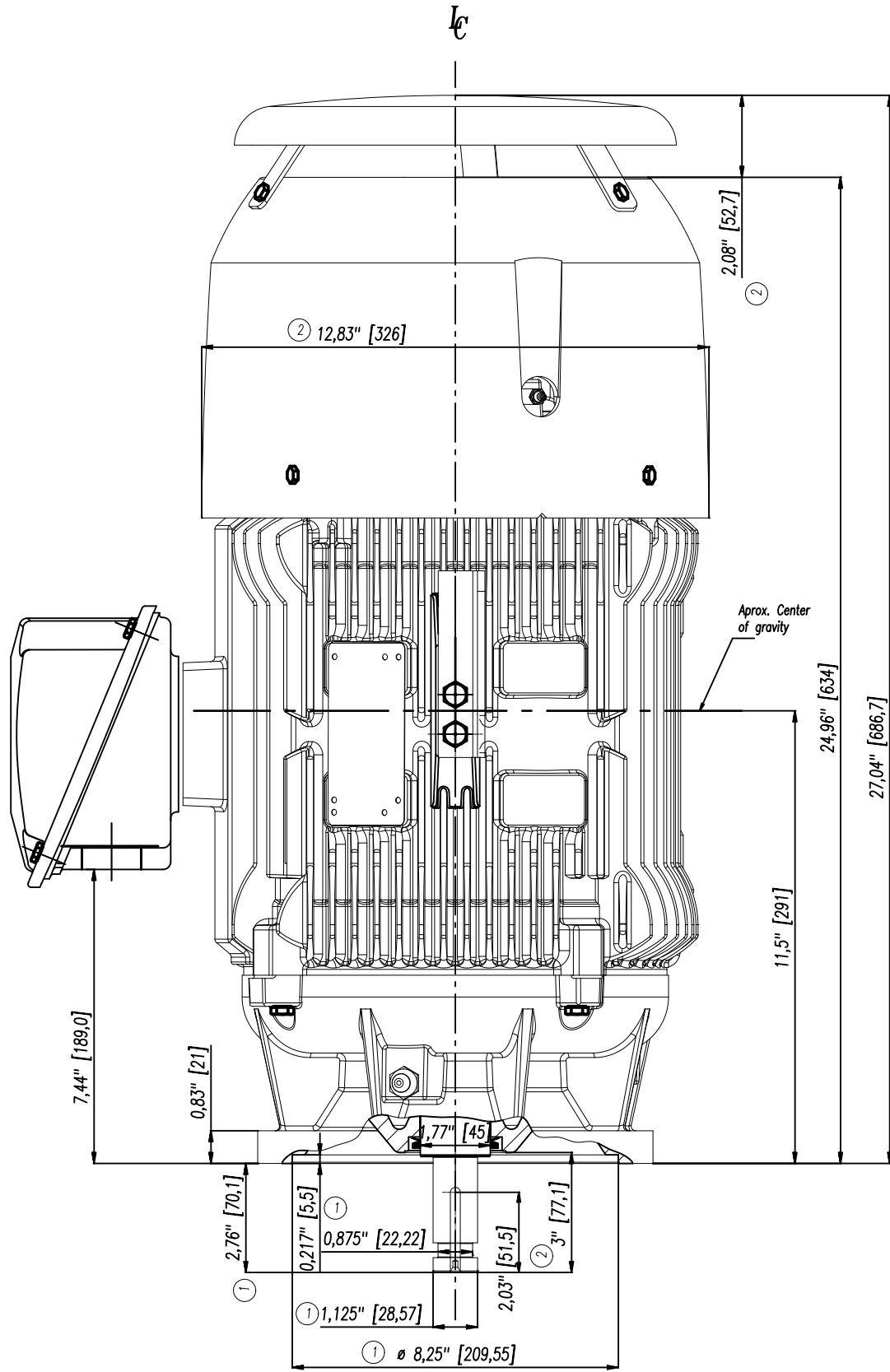
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- ① Tolerancias According to NEMA Std.
② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
③ Not According to NEMA Std.
- ① Tolerancias acorde a NEMA Std.
② Todas estas dimensiones correspondientes a ensambles y fundición en bruto tendrán una tolerancia según DIN 1686-GTB-19
③ No Acorde a NEMA Std.



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)	0.002" (0.05)	0.015" (0.38)

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

Static Deflection (in)
0.0002

CERTIFIED PRINT/CERTIFICACION

CUSTOMER/CLIENTE						
POB/ORDEN COMPRA#				SOB/ORDEN CLIENTE#		
HP	RPM	FRAME/ARM.	TYPE/TIPO	VOLTS	PH/FAS.	HZ

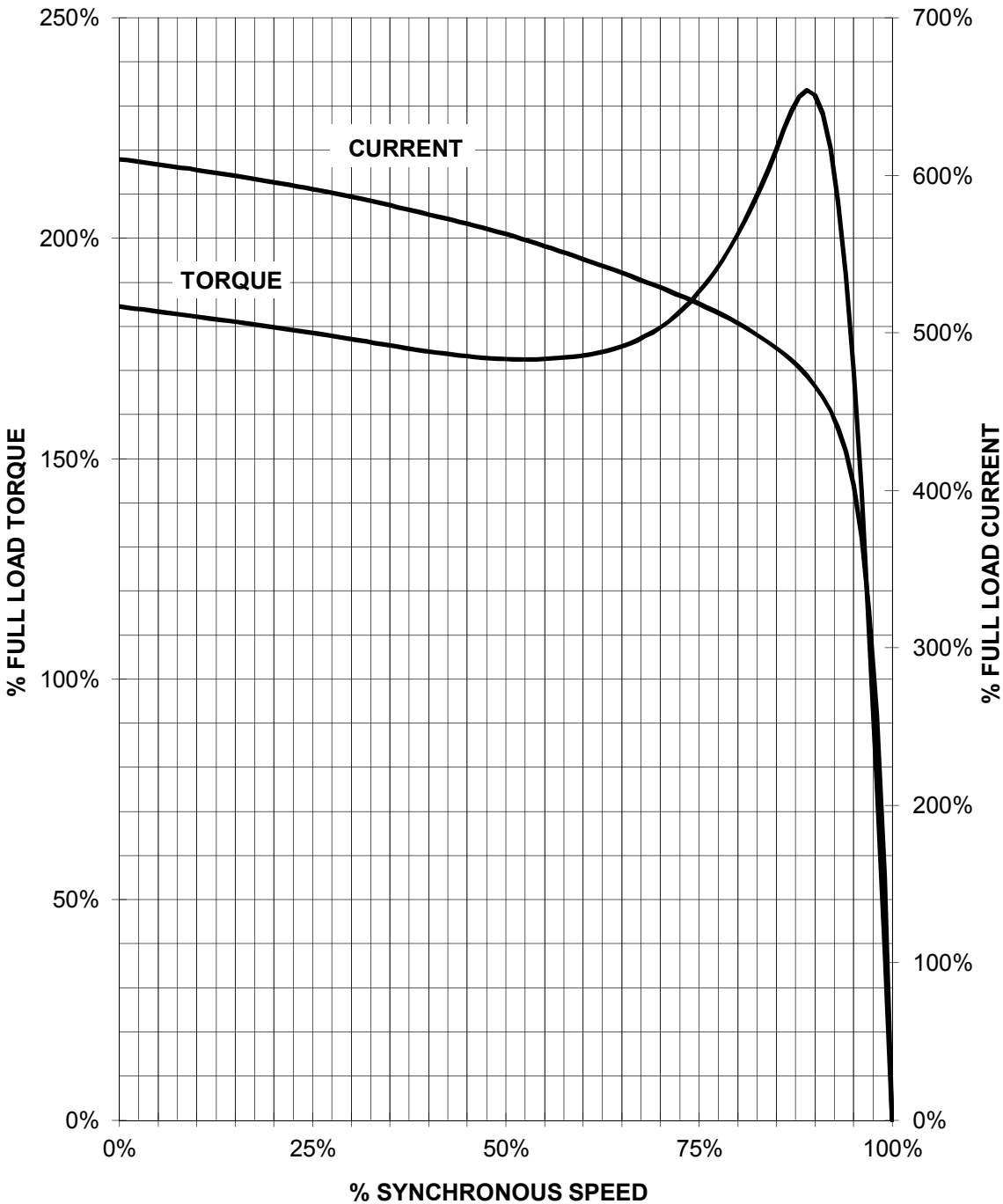
Tol. in mm. acc. to/Tol. en mm. según DIN-1686-GTB-19		
Over/desde	to/hasta	
---	18	± 4.5
18	30	± 4.7
30	50	± 5
50	80	± 5.5
80	120	± 6
120	180	± 6.5
180	250	± 7
250	315	± 7.5
315	400	± 8
400	500	± 8.5
500	630	± 9.5

Tolerance DIN 1686	Surface	Material	Weight 0	Scale 1:1
1PC28222B TA3 T-9042	Author VAZQUEZ PERALES Creator 2015-08-28 VAZQUEZ Approval Department PD LD P MF-GDL PLM 3 Change Order Doc State Revision 001 Index RS AA Project No	Outline HP100 FS 250 VSS, HP100, FS 250, 2-6 poles. Dimensional HP100 Arm. 250 VSS, HP100, Arm. 250, 2-6 Polos. MLFB Item No Doc No A5E36583129A Ref No 2430256a	Doc Type TB / Z Paper Size IEC-A3 1st Language en 2nd Language de Sheet of	
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HP	15	VOLTS	<600	1800	TYPE	HP100	
HZ	60	PHASE	3	FRAME	254HP	NEMA	B

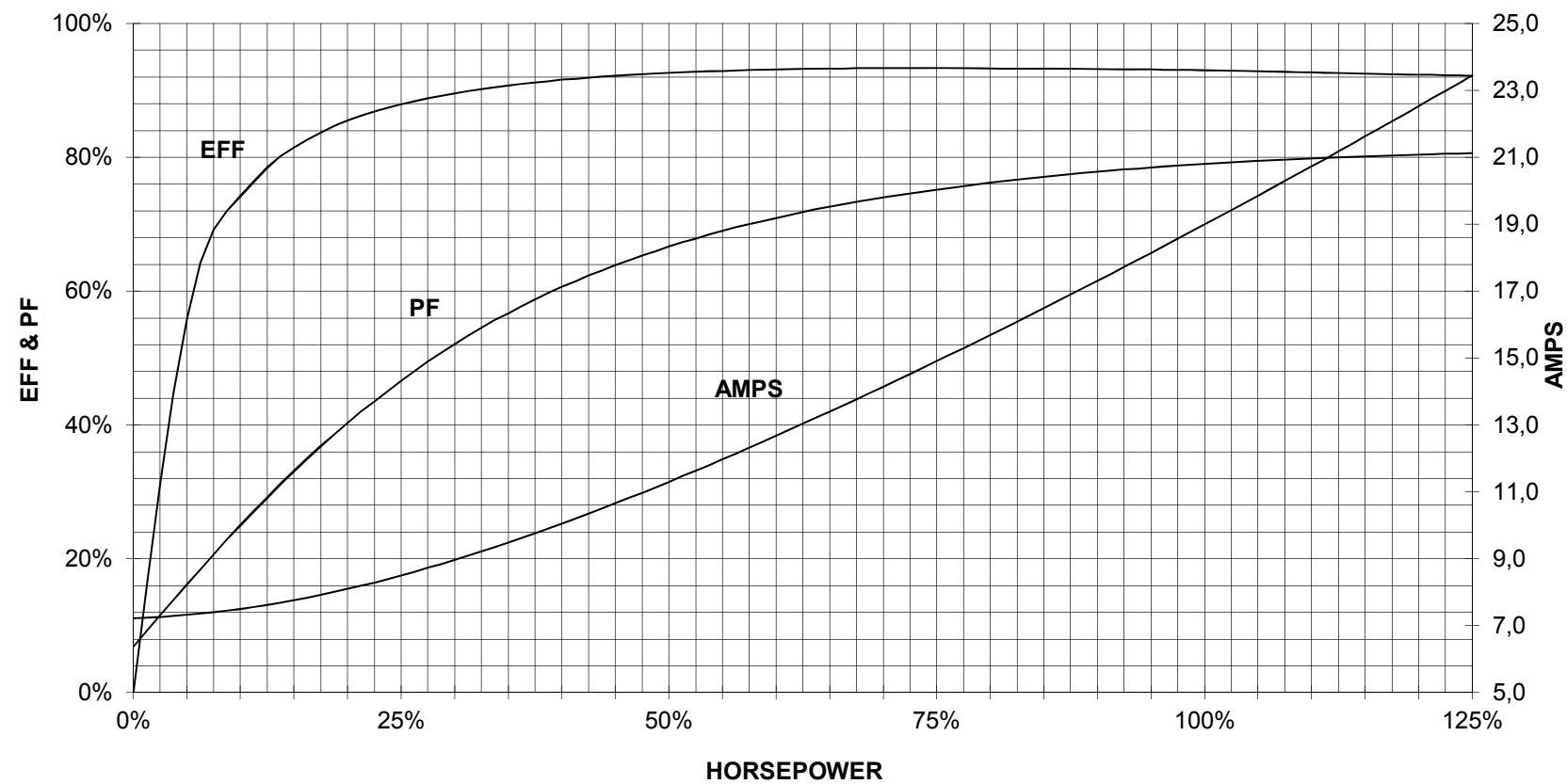
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

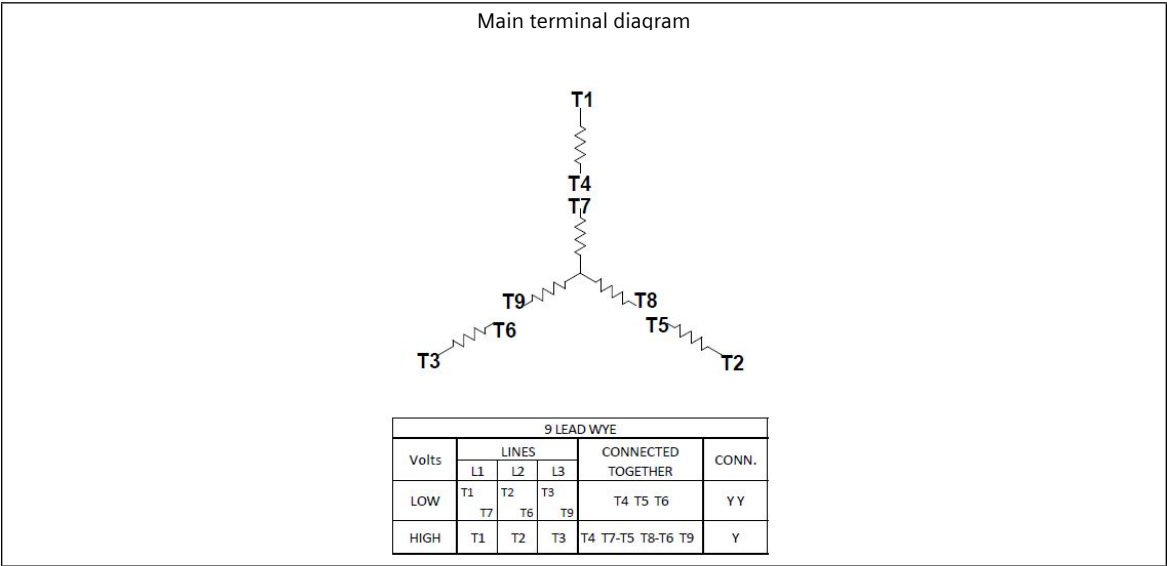
15 HP 1800 RPM 254HP FRAME 230/460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
HP100



CUSTOMER _____ ORDER # _____ PO # _____

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				Creation date 2024-05-19	Language en
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