

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

Motor type: (822) HP100 VSS Normal Thrust FS: 213 HP - 2p - 7.5 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	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	7.50		3,520	8.80	6.70	5.00	3.00	63.0	89.5	90.1	89.6	89.2	86.8	78.5	11.0	180	490	
230	Y Y	60	7.50		3,520	17.60	13.47	9.98	6.00	126.0	89.5	90.1	89.6	89.2	86.8	78.5	11.0	180	490	
400	Y	50	5.00		2,948	6.80	5.48	4.33	3.10	64.0	87.9	88.1	87.4	88.1	83.1	72.6	8.9	269	406	
200	Y Y	50	5.00		2,948	13.60	10.96	8.66	6.20	128.0	87.9	88.1	87.4	88.1	83.1	72.6	8.9	269	406	
Frame Type: 213 HP			Type of constr.: (T) Vertical P-Base										Motor Prot.:(A) No winding protection			NEMA Des.: B		S.F.: 1.15		
Mtr. WT:188 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								66.0 dB(A) / 78.0 dB(A)				Capacity				0.9 oz		1.6 oz					
Octave Band Center Frequencies Hertz												Grease Type:				Exxon Mobile EM							
250 500 1000 2000 4000 8000 Hz												Thickener				Polyurea							
SPL@3								53.0 55.0 63.0 62.0 58.0 47.0 dB(A)								Safe Stall Time Hot				17 s			
Moment of inertia								1.5 Lb-ft²								Safe Stall Time Cold				30 s			
Ext Load Inertia Capability:								8.8 Lb ft²								Frame material				Cast iron			
Bearings																Color, paint shade				Standard Paint - RAL7030			
Bearing DE NDE								6209 C3 S0				6309 C3 S0 DB								Coating (paint finish)		Standard Alkyed + Epoxy (C2)	
Bearing_Type								Ball Bearing				Ball Bearing (2)								Ventilation Type			
AFBMA:								45BC02J30				45BC03J30								Method of cooling		TEFC	
Rated Thrust																Direction of rotation				Bi-Directional			
Max Radial force								40 lbs								Fan Material				Plastic			
Max Down thrust 3yr 1yr								1,144 lbs				1,681 lbs				VFD				CT: n/a VT: n/a			
Max momentary up thrust 3yr 1yr								1,163 lbs				1,699 lbs				Space heaters				-/-			
Grease																Brake:				-/-			

Terminal box

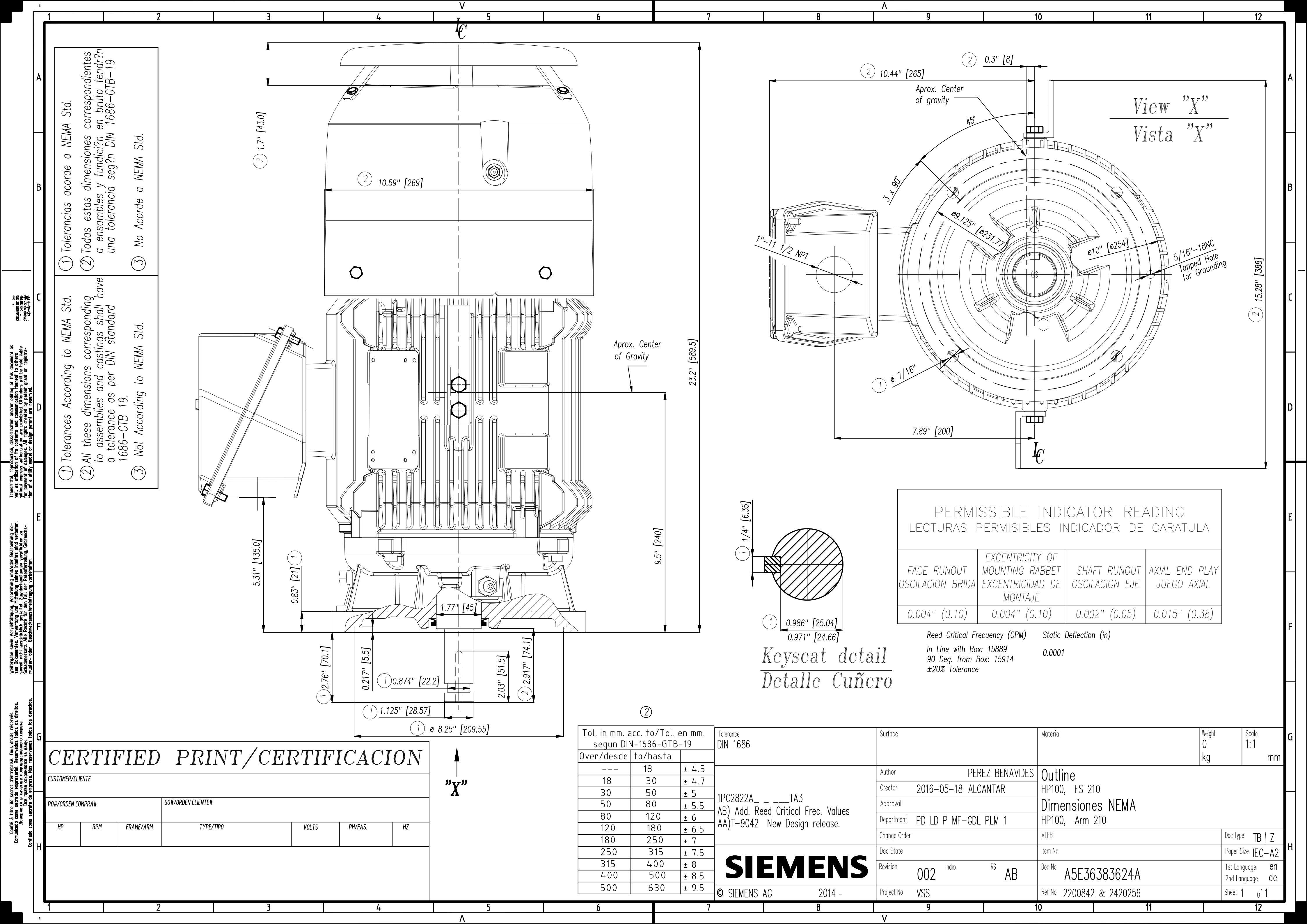
Lead Wire Connection					9 LEAD - WYE	Terminal box position		(3) Mounting - F-1	
Voltage	L1	L2	L3	Connected together		Material of terminal box		?PMD_AAC368_001_000_1PC2VX CI?	
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6		Cable entry		1" NPT	
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9					

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

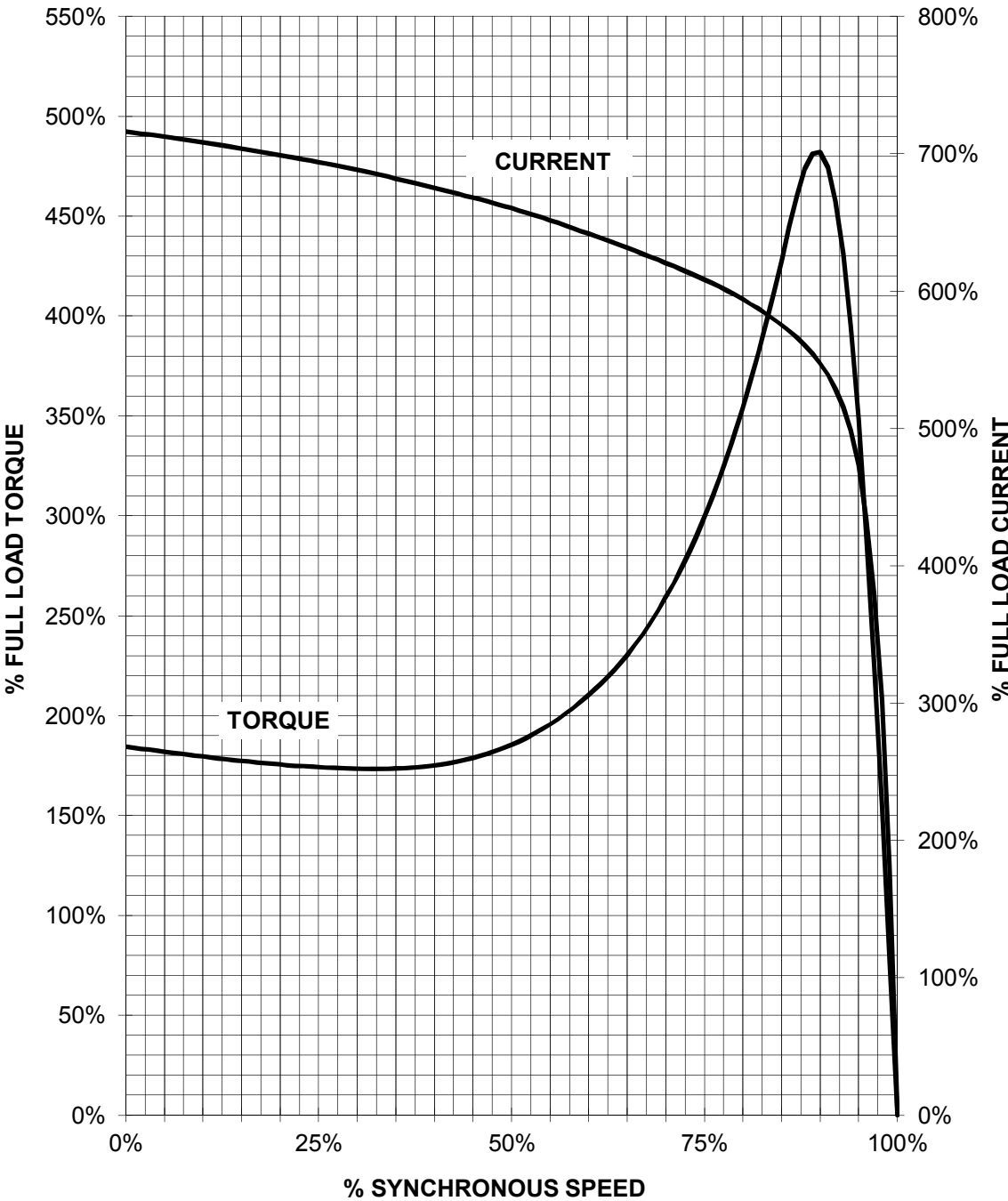
Responsible department IN LVM	Technical reference	Created by SPC	Approved by	Technical data are subject to change! There may be discrepancies						
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SIEMENS INDUSTRY, INC.

HP 7,5 VOLTS <600 3600 TYPE HP100
HZ 60 PHASE 3 FRAME 213HP NEMA B

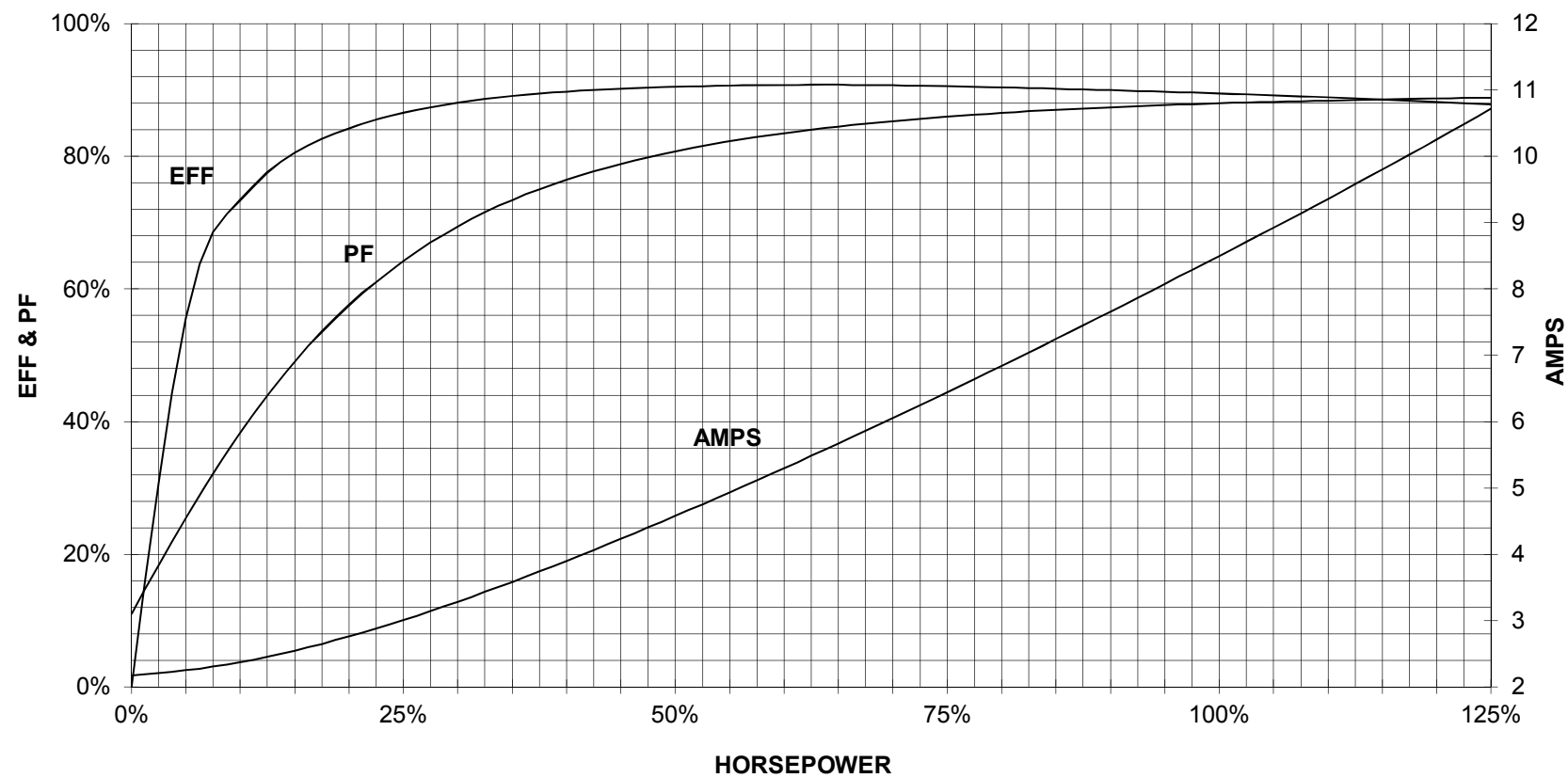
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

7.5 HP 3600 RPM 213HP FRAME 230/460 VOLTS 3 PHASE NEMA DESIGN B

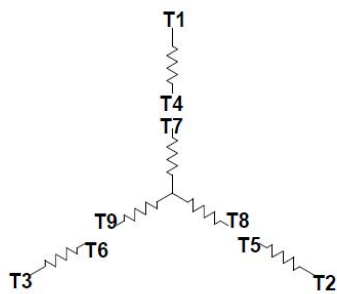
SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
HP100



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	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	
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