

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

Motor type: (822) HP100 VSS Normal Thrust FS: 215 HP - 2p - 10 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	10.00		3,515	11.50	8.70	6.30	3.50	81.0	90.2	91.1	91.0	90.3	88.8	81.5	15.0	180	440	
230	Y Y	60	10.00		3,515	23.00	17.36	12.63	7.00	162.0	90.2	91.1	91.0	90.3	88.8	81.5	15.0	180	440	
400	Y	50	7.50		2,933	10.10	7.99	6.17	4.22	84.0	89.2	89.8	89.8	89.0	84.9	75.4	13.5	235	400	
200	Y Y	50	7.50		2,933	20.20	15.98	12.34	8.44	168.0	89.2	89.8	89.8	89.0	84.9	75.4	13.5	235	400	
Frame Type: 215 HP			Type of constr.: (T) Vertical P-Base										Motor Prot.:(A) No winding protection				NEMA Des.: B		S.F.: 1.15	
Mtr. WT:202 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)									
Moment of inertia								1.8 Lb-ft²								Safe Stall Time Hot				14 s			
Ext Load Inertia Capability:								11.6 Lb ft²								Safe Stall Time Cold				28 s			
Bearings								Frame material								Cast iron							
Bearing DE NDE								6209 C3 S0				6309 C3 S0 DB				Color, paint shade				Standard Paint - RAL7030			
Bearing_Type								Ball Bearing				Ball Bearing (2)				Coating (paint finish)				Standard Alkyed + Epoxy (C2)			
AFBMA:								45BC02J30				45BC03J30				Ventilation Type							
Rated Thrust								Method of cooling								TEFC							
Max Radial force								52 lbs								Direction of rotation				Bi-Directional			
Max Down thrust 3yr 1yr								1,131 lbs				1,668 lbs				Fan Material				Plastic			
Max momentary up thrust 3yr 1yr								1,151 lbs				1,688 lbs				VFD				CT: n/a VT: n/a			
Grease																Space heaters				-/-			
																Brake:				-/-			

Terminal box

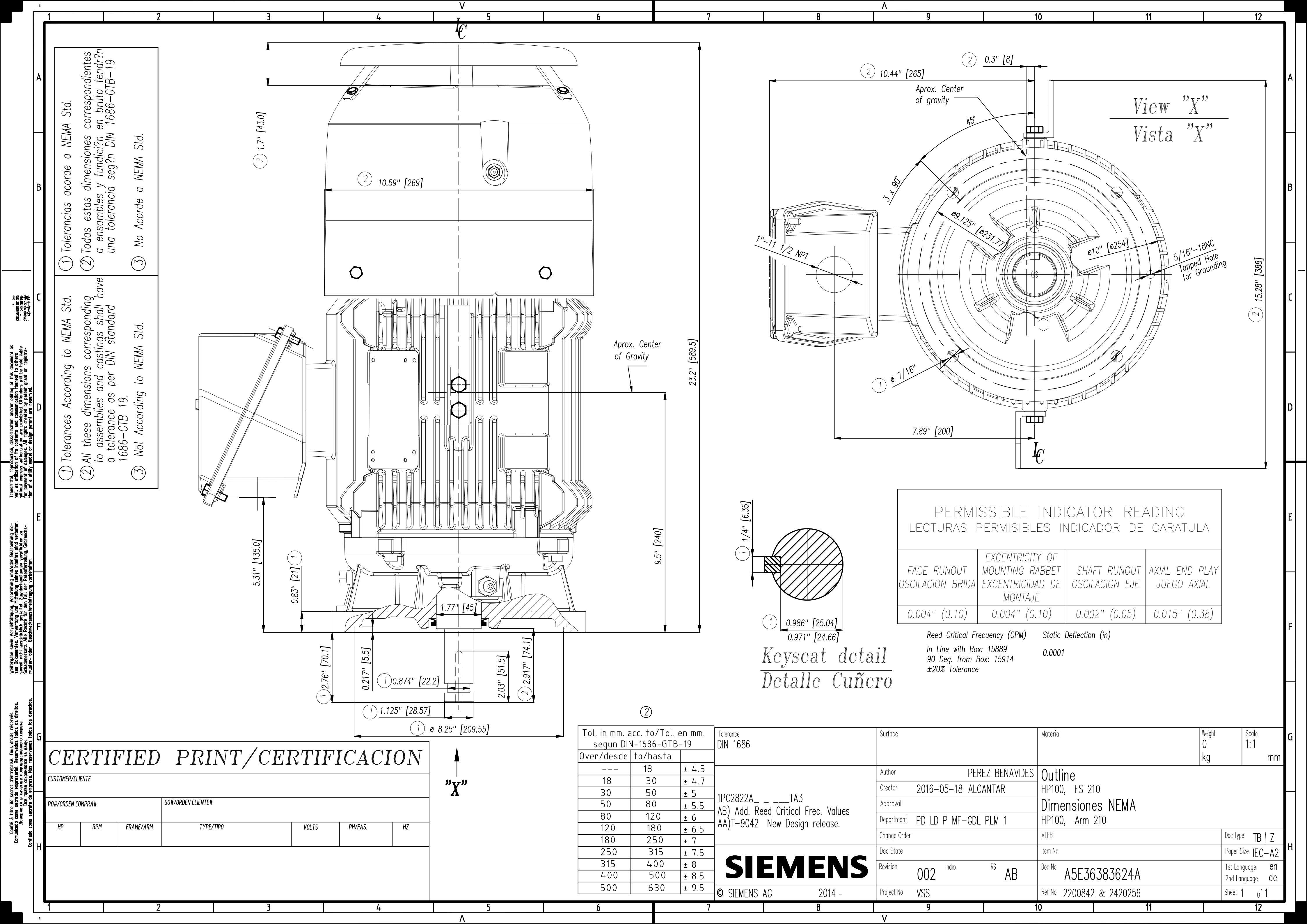
Lead Wire Connection					9 LEAD - WYE	Terminal box position		(3) Mounting - F-1	
Voltage	L1	L2	L3	Connected together		Material of terminal box		?PMD_AAC368_001_000_1PC2VX CI?	
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6		Cable entry		1" NPT	
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9					

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

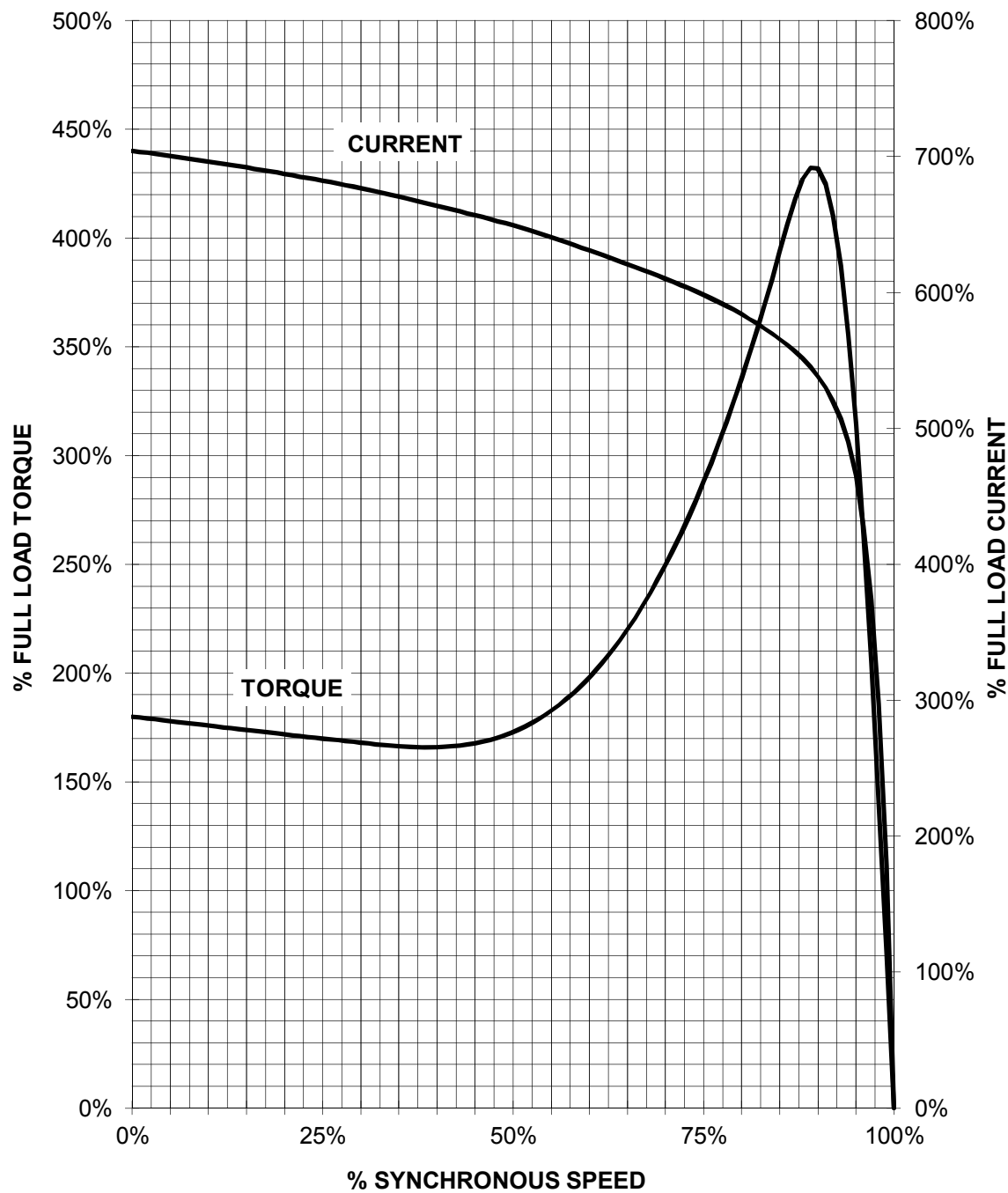
Responsible department IN LVM		Technical reference	Created by SPC	Approved by	Technical data are subject to change! There may be discrepancies				
		Document type Datasheet			Document status Released		customer		
		Document title 1PC2822-2AA41-6TA3			Document number				
		© ABB 2024					Revision 01	Creation date 2024-05-18 22:36	Language en



SIEMENS INDUSTRY, INC.

HP 10 VOLTS <600 3600 TYPE HP100
HZ 60 PHASE 3 FRAME 215HP NEMA B

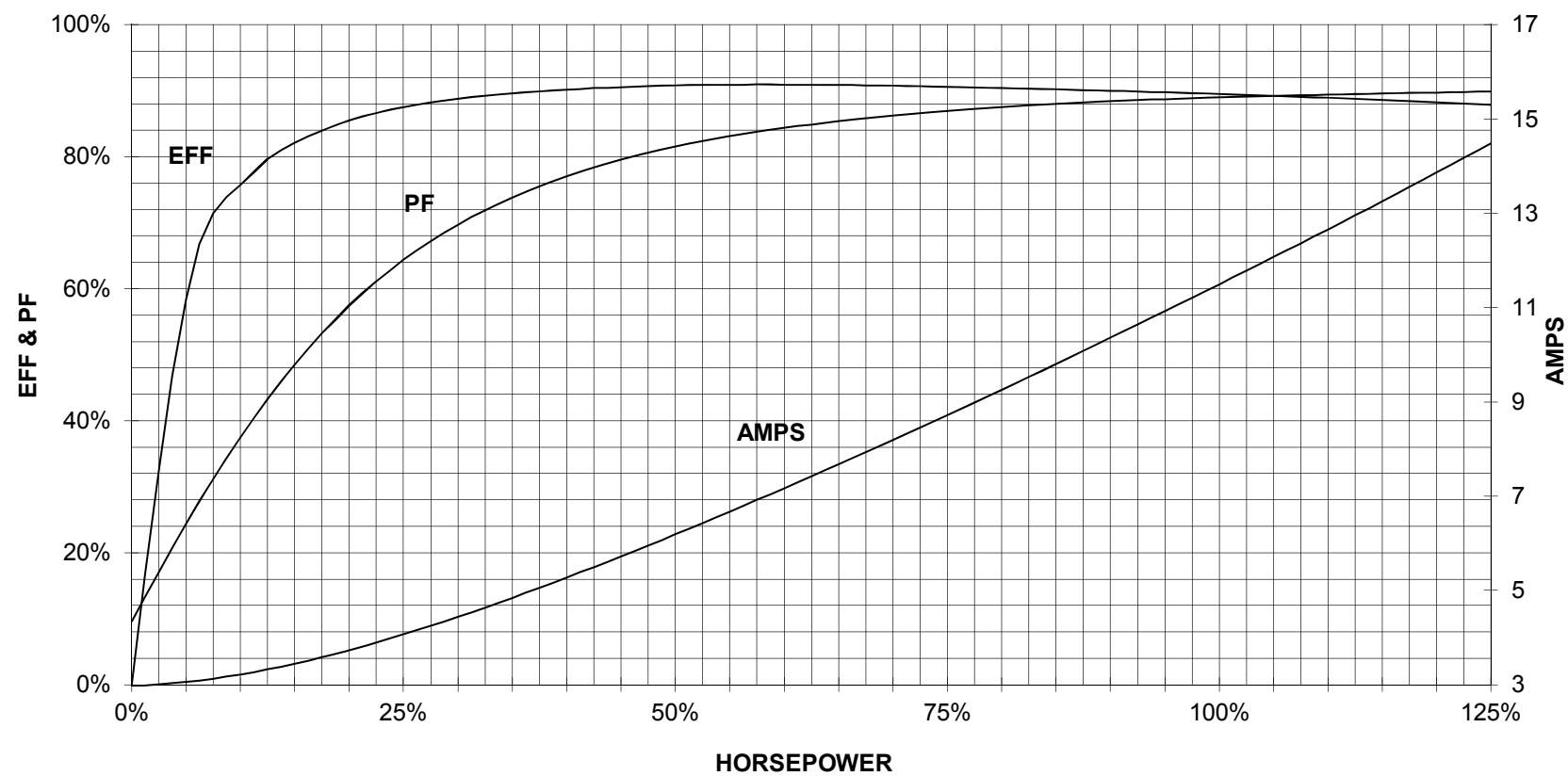
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

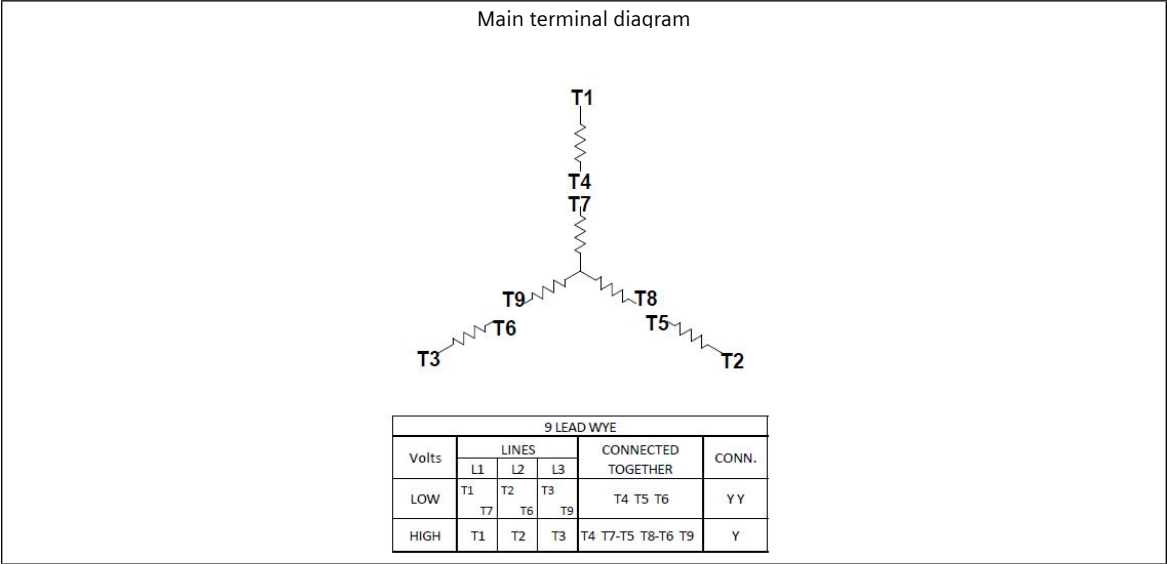
10 HP 3600 RPM 215HP FRAME 230/460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
HP100



CUSTOMER _____ ORDER # _____ PO # _____

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



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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	
Restricted © Innomotics 2024	Document type Wiring diagramm			Document status Released			
	Document title 1PC2822-2AA41-6TA3			Document number WDS-240518-223633			
	Revision AA		Creation date 2024-05-18				
				Language en	Page 1/1		