

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

Motor type: (822) HP100 VSS Normal Thrust FS: 215 HP - 4p - 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		1,755	12.50	10.00	8.00	6.10	81.0	91.7	92.2	91.7	81.7	76.2	63.8	30.0	270	410	
230	Y Y	60	10.00		1,755	25.00	19.99	16.00	12.20	162.0	91.7	92.2	91.7	81.7	76.2	63.8	30.0	270	410	
400	Y	50	7.50		1,467	12.44	10.42	9.04	8.29	82.0	89.6	89.7	88.2	71.3	63.8	49.8	26.9	233	500	
200	Y Y	50	7.50		1,467	24.88	20.84	18.08	16.58	164.0	89.6	89.7	88.2	71.3	63.8	49.8	26.9	233	500	
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: 220 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								57.0 dB(A) / 69.0 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	37.0	44.0	54.0	53.0	44.0	35.0	dB(A)			Safe Stall Time Hot		20 s	
Moment of inertia								2.8 Lb-ft²		Safe Stall Time Cold		36 s	
Ext Load Inertia Capability:								54.7 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					75 lbs			Fan Material		Plastic			
Max Down thrust 3yr 1yr				1,415 lbs		2,091 lbs		VFD		CT: n/a VT: n/a			
Max momentary up thrust 3yr 1yr				1,434 lbs		2,111 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

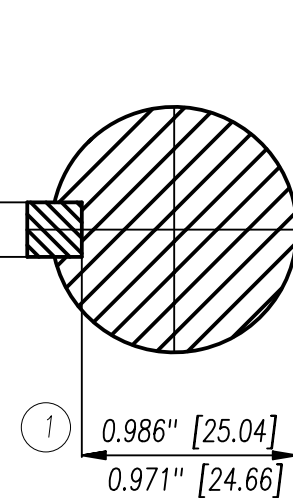
Responsible department IN LVM	Technical reference	Created by SPC	Approved by	Technical data are subject to change! There may be discrepancies			
	Document type Datasheet			Document status Released		customer	
	Document title 1PC2822-2AB41-6TA3			Document number			
	© ABB 2024				Revision 01	Creation date 2024-05-25 03:19	Language en

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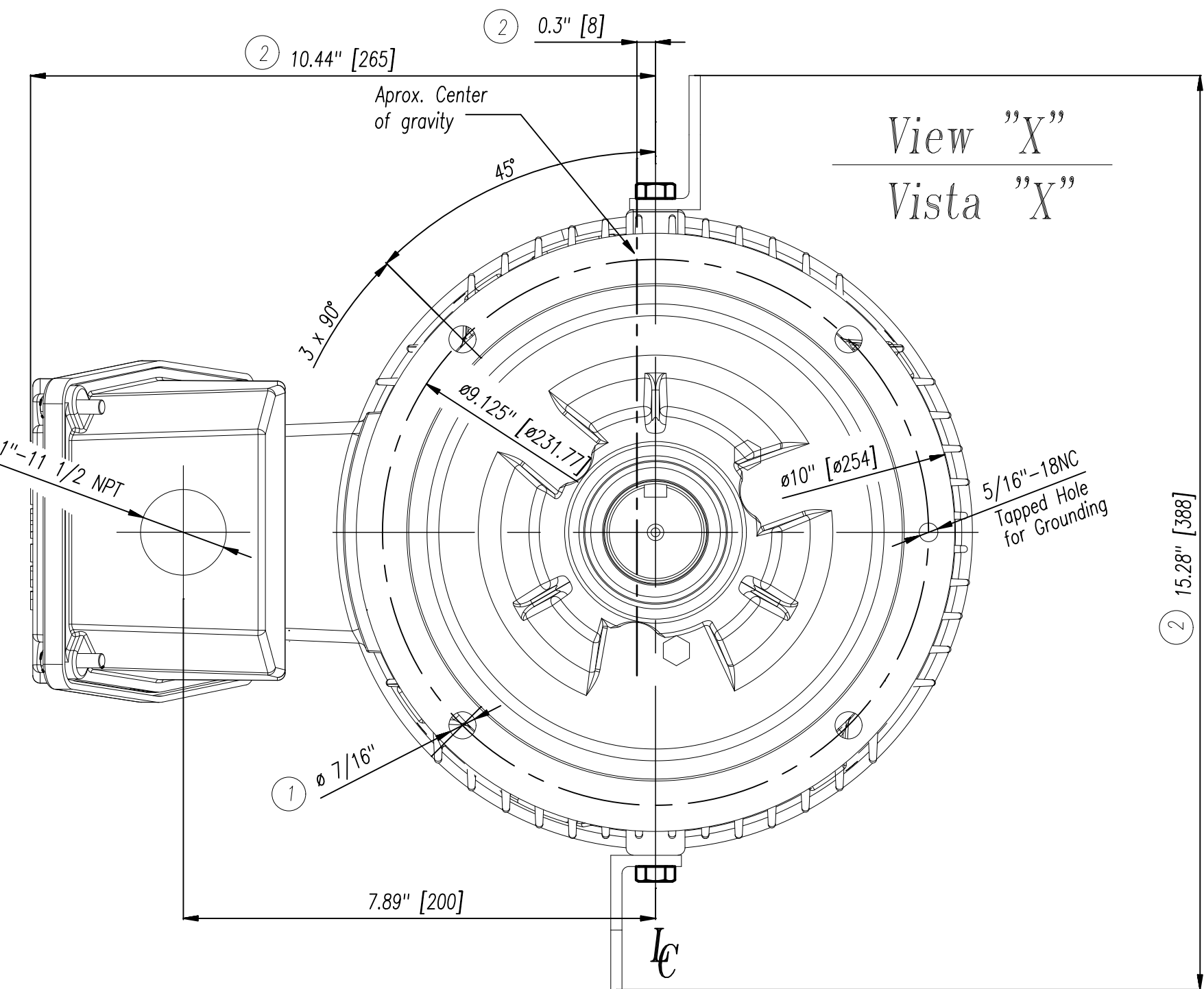
① Tolerances According to NEMA Std.

② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686—GTB 19.

③ Not According to NEMA Std.



Keyseat detail
Detalle Cuñero



FACE RUNOUT OSCILACION BRIDA	EXCENTRICITY OF MOUNTING RABBET 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)	Static Deflection (in)
In Line with Box: 15889	0.0001
90 Deg. from Box: 15914	
±20% Tolerance	

CUSTOMER/CLIENTE _____

PO#/ORDEN COMPRA#			SO#/ORDEN CLIENTE#			
HP	RPM	FRAME/ARM.	TYPE/TIPO	VOLTS	PH/FAS.	HZ

↑
"X"

Tolerance
DIN 1686

1PC2822A_ _ _ _TA3
AB) Add. Reed Critical Frec. Values
AA)T-9042 New Design release.

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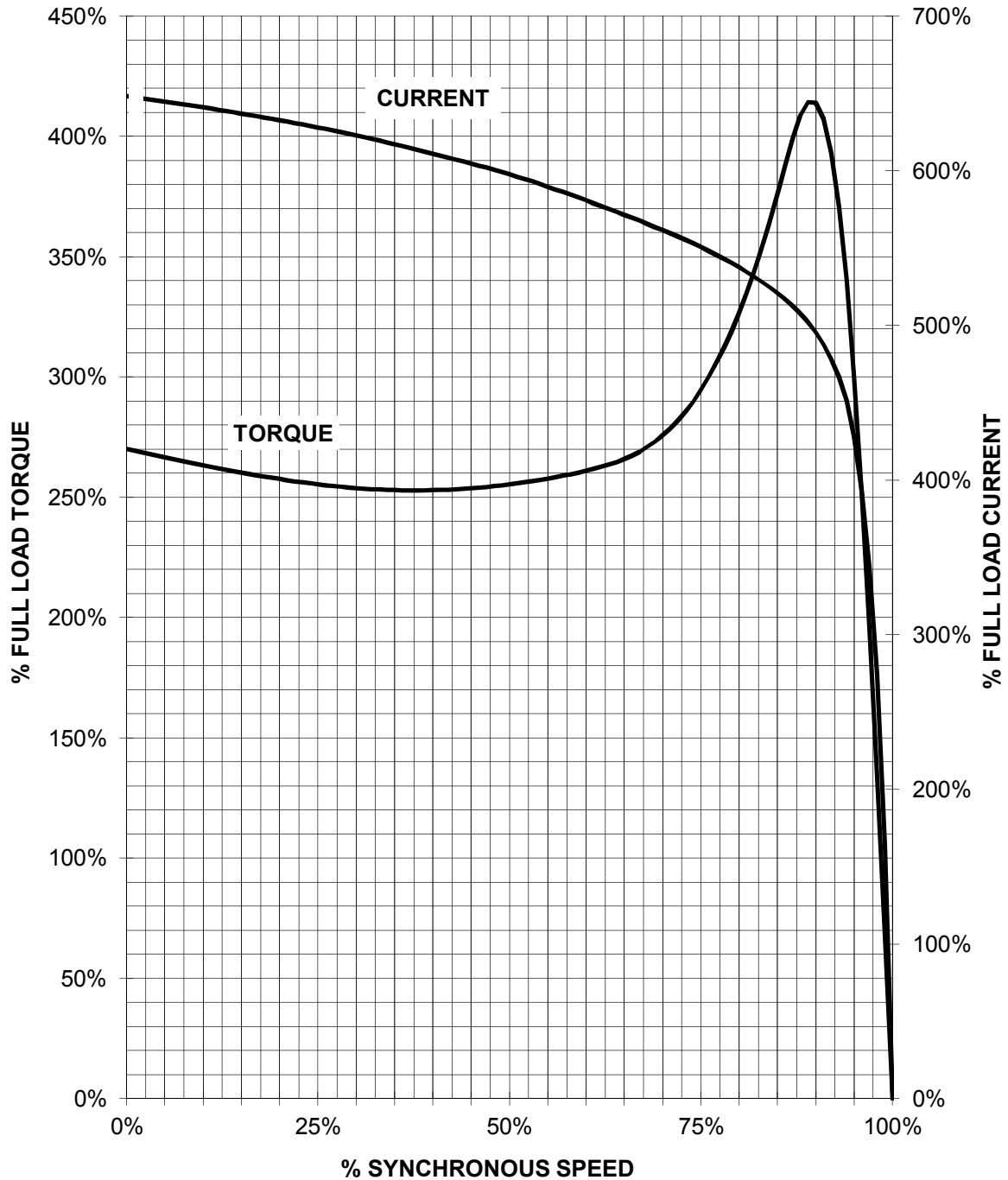
Surface	
Author	PEREZ_BENAVIDES
Creator	2016-05-18 ALCANTAR
Approval	
Department	PD LD P MF-GDL PLM 1
Change Order	
Doc State	
Revision	002 Index RS AB
Project No	VSC

Material	Weight 0 kg	Scale 1:1 mm
Outline HP100, FS 210 Dimensiones NEMA HP100, Arm 210		
MLFB	Doc Type TB / Z	
Item No	Paper Size IEC-A2	
Doc No A5E36383624A	1st Language en 2nd Language de	
Ref No 2200842 & 2420256	Sheet 1 of 1	

SIEMENS INDUSTRY, INC.

HP 10 VOLTS <600 1800 TYPE HP100
HZ 60 PHASE 3 FRAME 215HP NEMA B

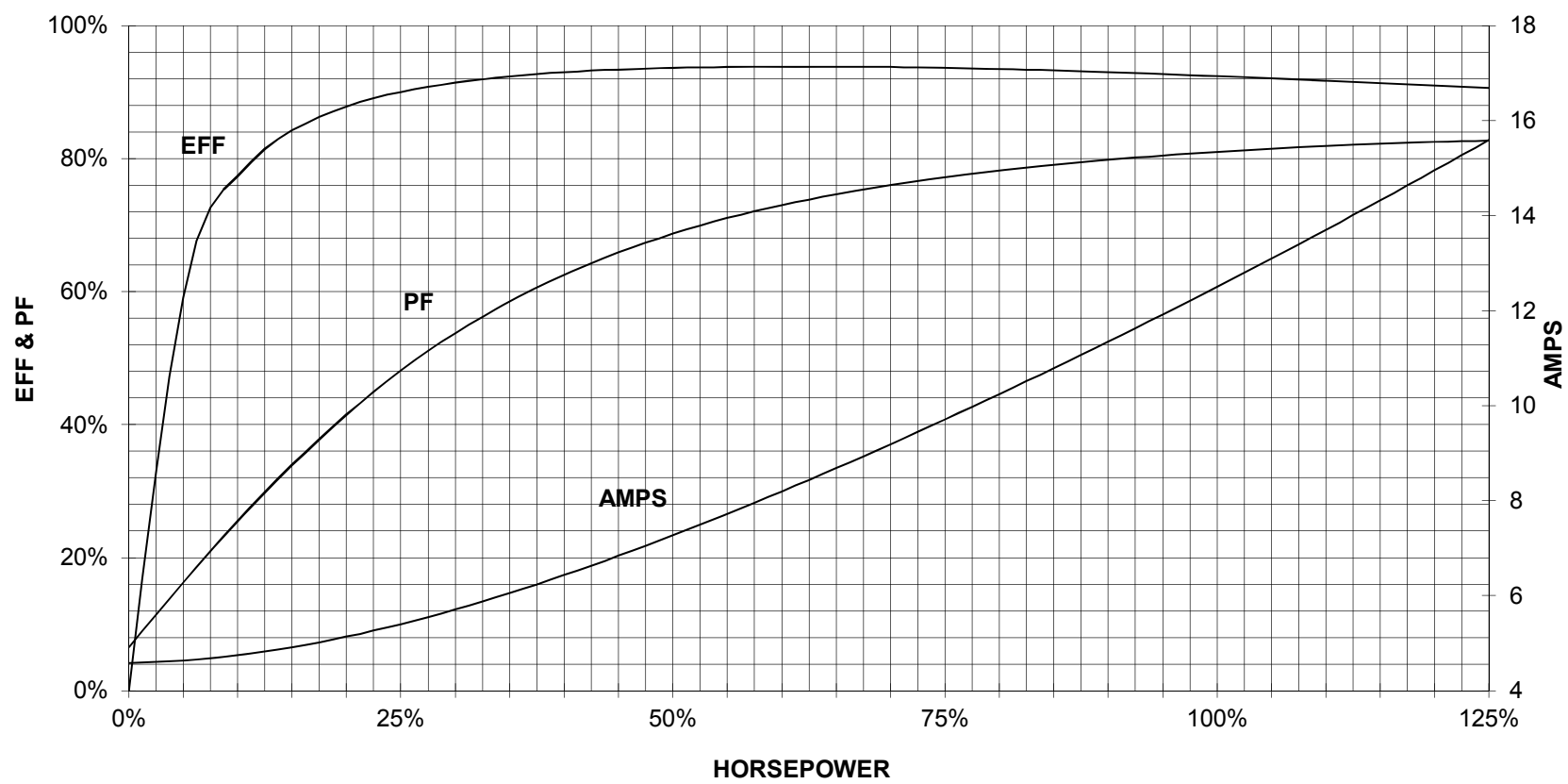
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

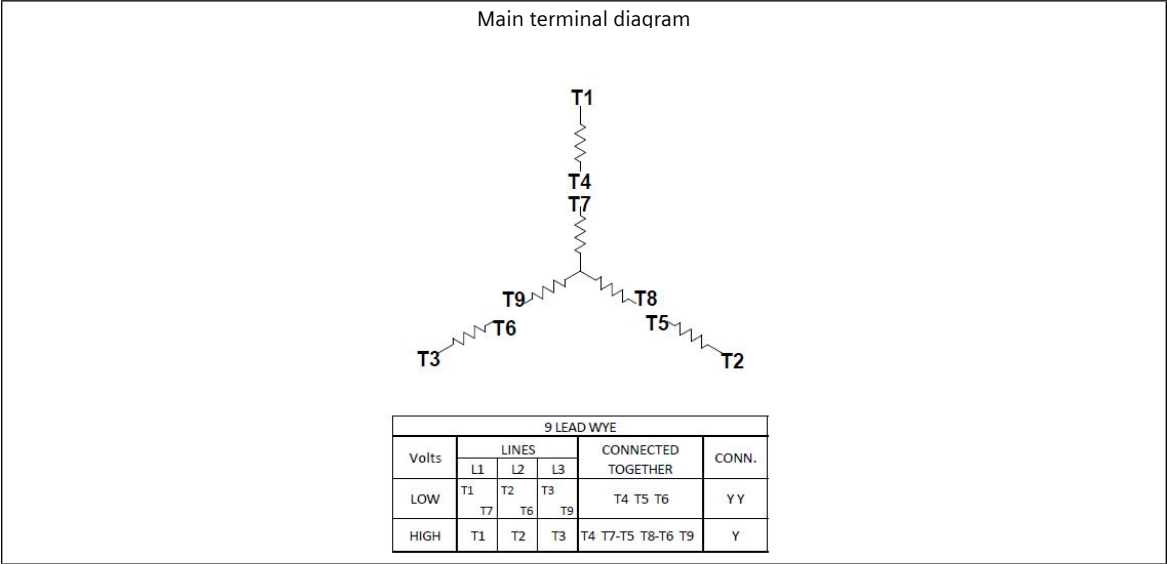
10 HP 1800 RPM 215HP FRAME 230/460 VOLTS 3 PHASE NEMA DESIGN B

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	
	Document type Wiring diagramm			Document status Released			
	Document title 1PC2822-2AB41-6TA3			Document number WDS-240525-032000			
	Restricted © Innomotics 2024			Revision AA	Creation date 2024-05-25		