

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

Motor type: (832) LP100 VSS In-Line Thrust FS: 184 LP - 2p - 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	5.00		3,505	6.00	4.60	3.40	2.00	46.0	88.5	89.1	88.2	88.2	85.9	78.1	7.5	170	420	
230	Y Y	60	5.00		3,505	12.00	9.18	6.80	4.00	92.0	88.5	89.1	88.2	88.2	85.9	78.1	7.5	170	420	
400	Y	50	3.00		2,945	4.31	3.51	2.83	2.10	45.0	85.9	85.6	83.9	82.7	76.3	64.4	5.3	318	590	
200	Y Y	50	3.00		2,945	8.62	7.02	5.66	4.20	90.0	85.9	85.6	83.9	82.7	76.3	64.4	5.3	318	590	
Frame Type: 184 LP			Type of constr.: (T) Vertical P-Base										Motor Prot.:(A) No winding protection			NEMA Des.: B		S.F.: 1.15		
Mtr. WT:130 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								69.0 dB(A) / 81.0 dB(A)				Capacity				0.7 oz		1.3 oz	
Octave Band Center Frequencies Hertz												Grease Type:				Exxon Mobile EM			
250 500 1000 2000 4000 8000 Hz												Thickener				Polyurea			
SPL@3								49.0 61.0 66.0 64.0 60.0 50.0 dB(A)				Safe Stall Time Hot				15 s			
Moment of inertia								0.6 Lb-ft²				Safe Stall Time Cold				29 s			
Ext Load Inertia Capability:								6.1 Lb ft²				Frame material				Cast iron			
Bearings												Color, paint shade				Standard Paint - RAL7030			
Bearing DE NDE								6206 C3 S0				Coating (paint finish)				Standard Alkyed + Epoxy (C2)			
Bearing_Type								Ball Bearing				Ventilation Type							
AFBMA:								30BC03J30				Method of cooling				TEFC			
Rated Thrust												Direction of rotation				Bi-Directional			
Max Radial force								34 lbs				Fan Material				Plastic			
Max Down thrust 3yr 1yr								731 lbs				VFD				CT: n/a VT: n/a			
Max momentary up thrust 3yr 1yr								738 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		.75" 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 1PC2832-1DA51-6TA3			Document number					
	© ABB 2024				Revision 01	Creation date 2024-05-25 04:20	Language en	Page 1/1	

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① Tolerancias acorde a NEMA Std.

② Todas estas dimensiones correspondientes a ensambles y fundici?n en bruto tendr?n una tolerancia seg?n DIN 1686-GTB-19

③ No Acorde a NEMA Std.

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.

CERTIFIED PRINT/CERTIFICACION

CUSTOMER/CLIENTE:

#PO/#ORDEN COMPRA:

#SO/#ORDEN CLIENTE:

HP:

RPM:

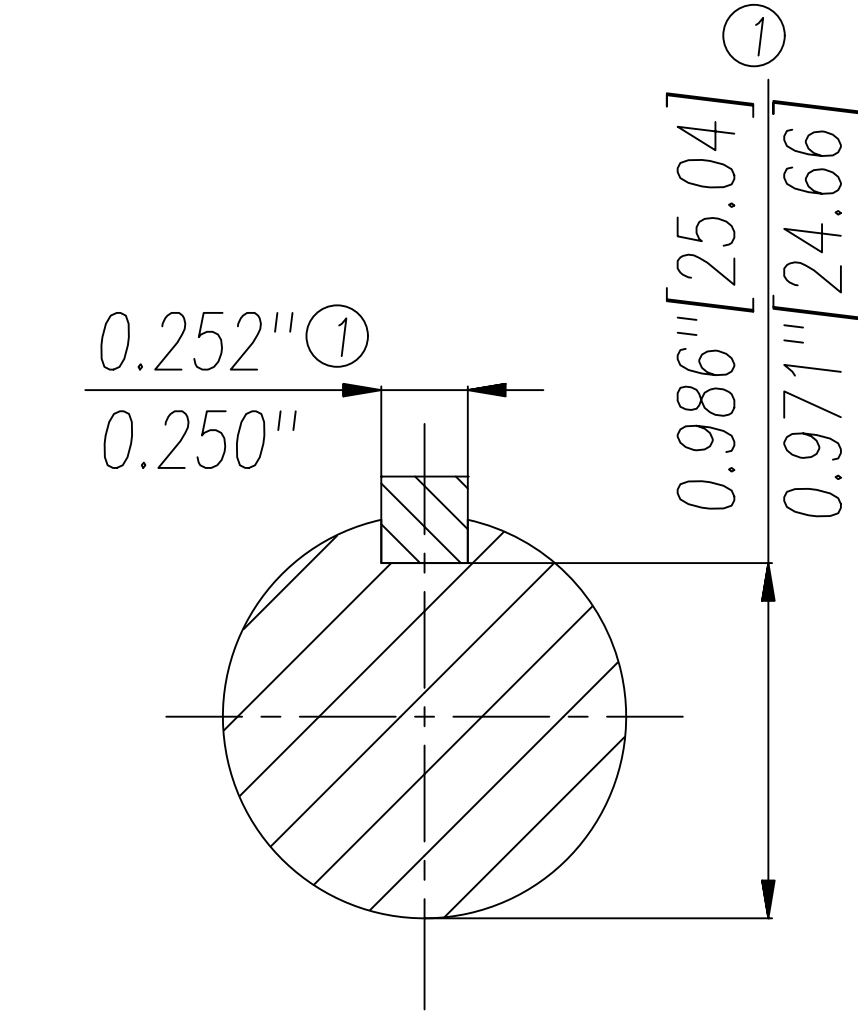
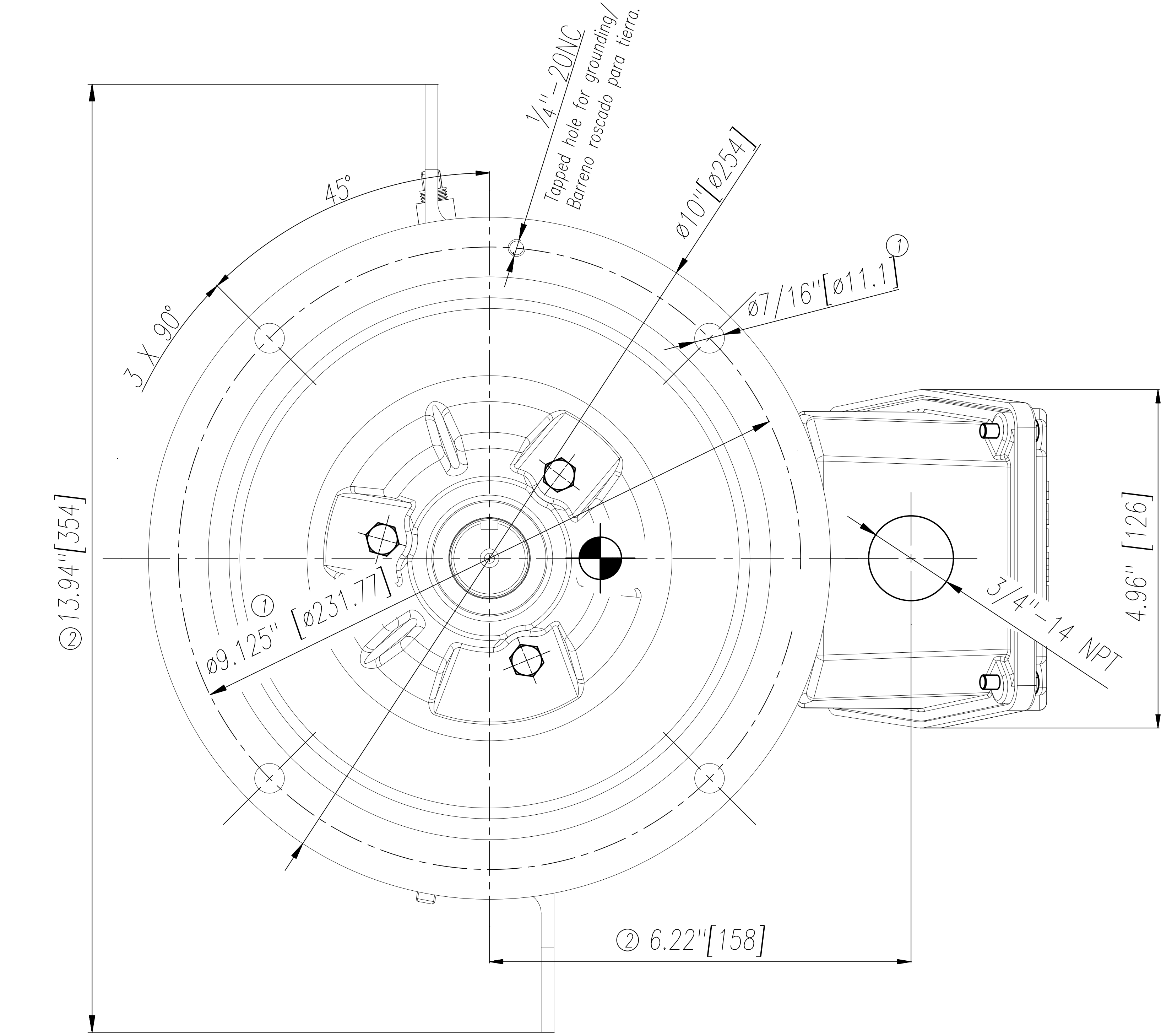
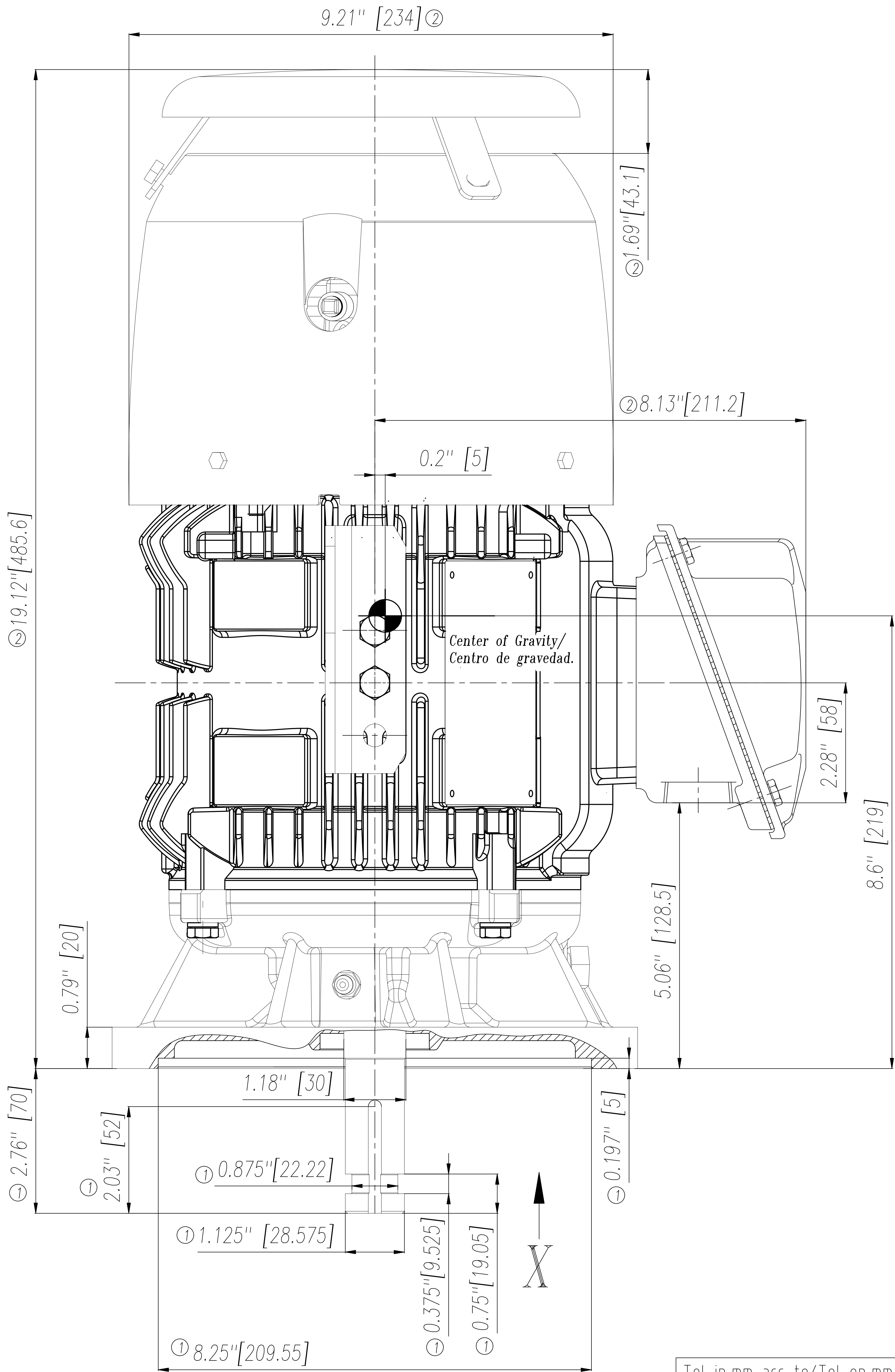
FRAME/ARM:

TYPE/TIPO:

VOLTS:

PH/FASES:

HZ:



Keyseat detail
Detalle Cuñero

PERMISSIBLE INDICATOR READINGS LECTURAS PERMISIBLES INDICADOR DE CARATULA				
FACE RUNOUT OSCILACION BRIDA	MOUNTING RABET ECCENTRICITY EXCENRICIDAD MONTAJE	SHAFT RUNOUT OSCILACION EJE	AXIAL END PLAY JUEGO AXIAL	TYPE TIPO
0.004"[0.10]	0.004"[0.10]	0.001"[0.025]	0.002"[0.05]	LP100
		0.002"[0.05]	0.015"[0.38]	HP100

Reed Critical Frequency (CPM) Static Deflection (in)
In Line with Box: 17700 0.0001
90 Deg. from Box: 17727
±20% Tolerance

Tol. in mm. acc. to/Tol. en mm. segun DIN-1686-GTB-19	Tolerance DIN-1686-GTB-19	Surface	Material	Weight 0	Scale 1:1
Over/desde to/hasta	1PC28221D...TA3, 1PC28321D...TA3 AA) New design release, T-9042	Author MARTINEZ	NEMA Outline HP100 & LP100 F.S. 180 DIMENSIONES NEMA HP100 & LP100 Arm. 180		
18 30 ± 4.5		Creator 2015-07-17 MARTINEZ			
30 50 ± 5		Approval			
50 80 ± 5.5		Department PD LD P MF-GDL PLM 3			
80 120 ± 6		Change Order	MLFB	Doc Type TB Z	
120 180 ± 6.5		Doc State	Item No	Paper Size IEC-A3	
180 250 ± 7		Revision 001 Index RS AA	Doc No A5E36388125A	1st Language en	
250 315 ± 7.5		Project No VSS (Vertical Solid shaft)	Ref No 2410255_AA+2210842_AA	2nd Language de	
315 400 ± 8				Sheet of	
400 500 ± 8.5					
500 630 ± 9.5					

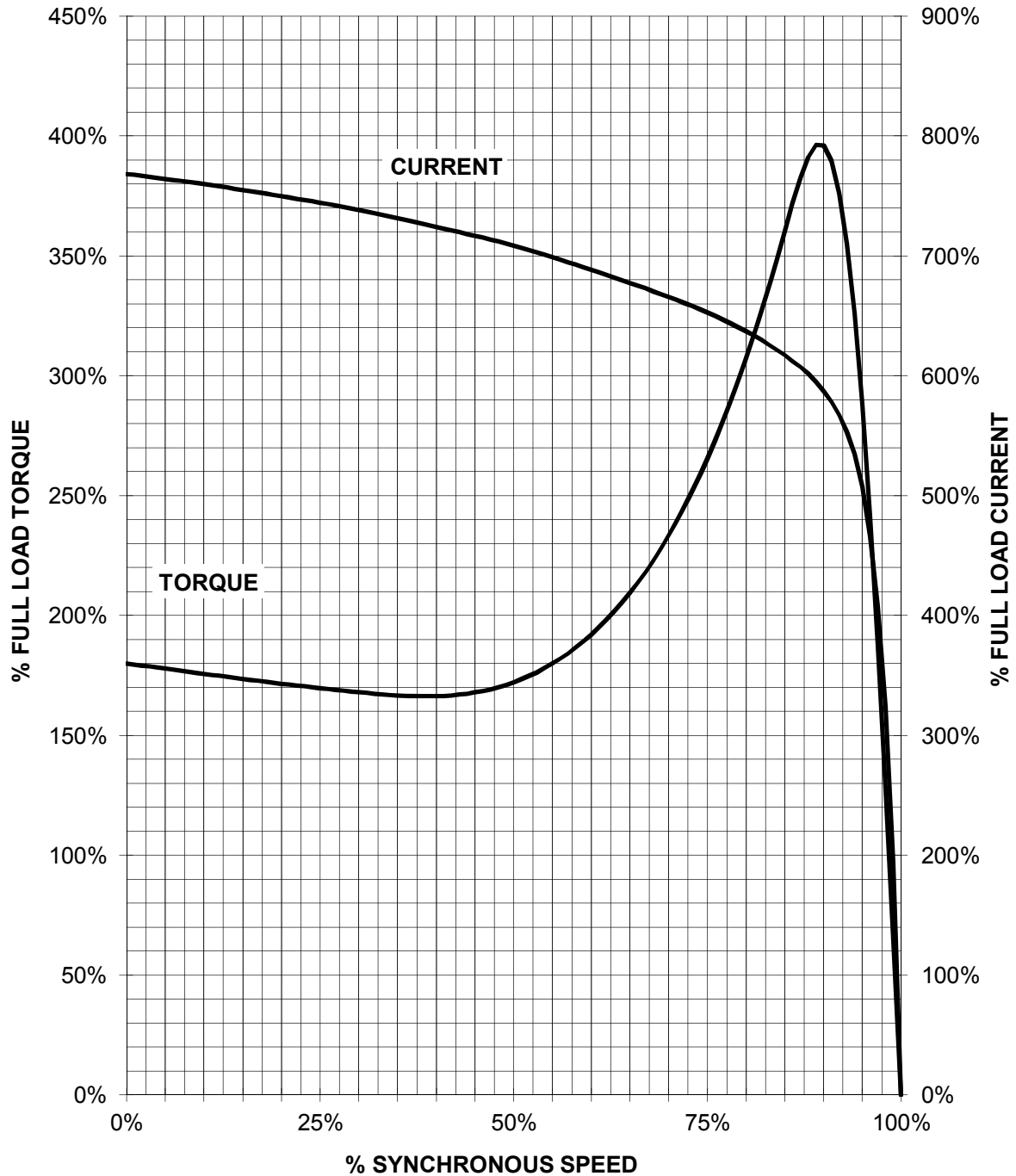
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HP 5 VOLTS <600 3600 TYPE LP100
HZ 60 PHASE 3 FRAME 184LP NEMA B

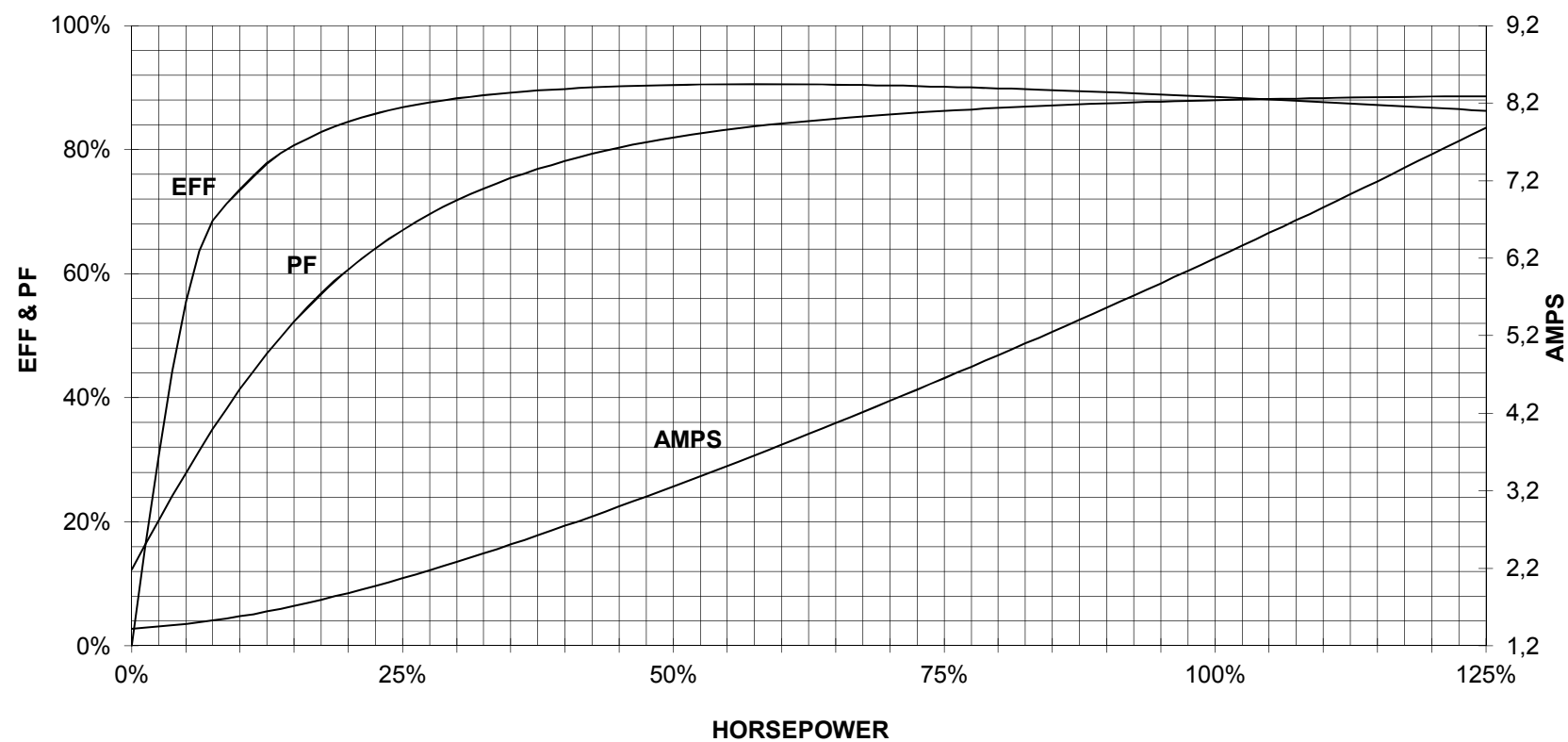
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

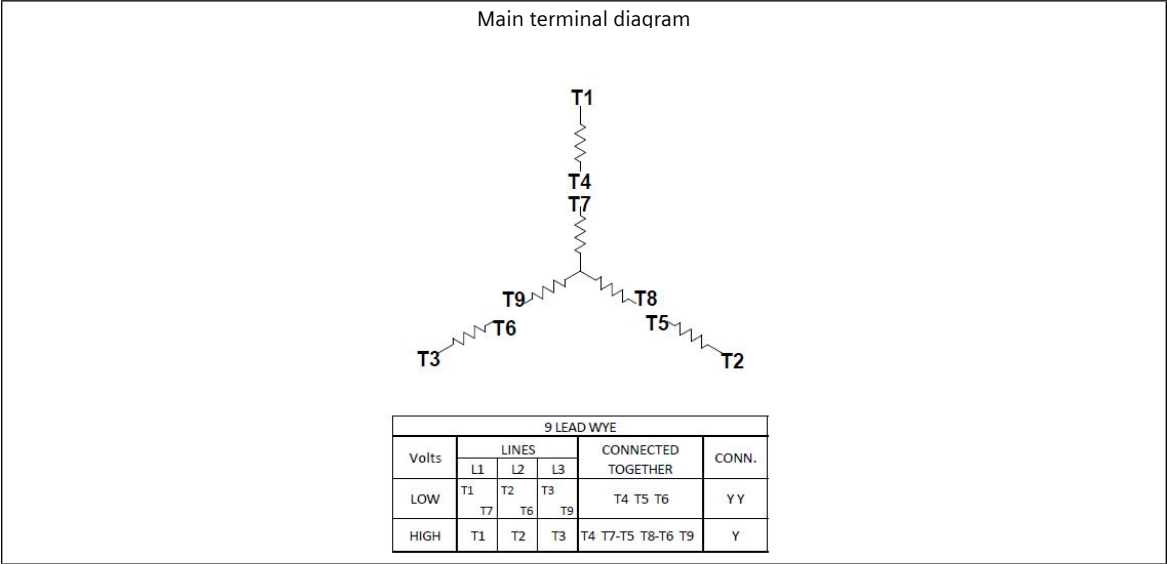
5 HP 3600 RPM 184LP FRAME 230/460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
LP100



CUSTOMER _____ ORDER # _____ PO # _____

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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 1PC2832-1DA51-6TA3			Document number WDS-240525-042016	
Restricted © Innomotics 2024				Revision AA	
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