

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

Motor type: (832) LP100 VSS In-Line Thrust FS: 182 LP - 4p - 3 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	3.00		1,760	4.00	3.30	2.70	2.10	33.0	89.5	89.4	87.8	78.5	71.7	59.5	9.0	235	360	
230	Y Y	60	3.00		1,760	8.00	6.57	5.38	4.20	66.0	89.5	89.4	87.8	78.5	71.7	59.5	9.0	235	360	
400	Y	50	2.00		1,475	3.30	2.87	2.40	1.98	32.7	85.3	84.0	80.9	74.3	65.1	53.9	7.1	340	663	
200	Y Y	50	2.00		1,475	6.60	5.74	4.80	3.96	65.5	85.3	84.0	80.9	74.3	65.1	53.9	7.1	340	663	
Frame Type: 182 LP			Type of constr.: (T) Vertical P-Base										Motor Prot.:(A) No winding protection			NEMA Des.: B		S.F.: 1.15		
Mtr. WT:129 lbs			Insulation Class.:Class F Insulation							Temp. Rise Cl.: B			Amb. Temp.: + 40 to -20 °C @1000 m			kVA: K		IP IP55		

Mechanical data

Sound level (SPL / SWL) at 60 Hz								57.0 dB(A) / 67.0 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								42.0 46.0 54.0 49.0 43.0 32.0 dB(A)								Safe Stall Time Hot								17 s											
Moment of inertia								0.8 Lb-ft²								Safe Stall Time Cold								29 s											
Ext Load Inertia Capability:								17.4 Lb ft²								Frame material								Cast iron											
Bearings														Color, paint shade								Standard Paint - RAL7030													
Bearing DE NDE								6206 C3 S0								7306 BG DB																			
Bearing_Type								Ball Bearing								Thrust Ball Bearing(2)																			
AFBMA:								30BC03J30								30BT03MR3																			
Rated Thrust														Direction of rotation								Bi-Directional													
Max Radial force								39 lbs								Fan Material								Plastic											
Max Down thrust 3yr 1yr								927 lbs								1,361 lbs								VFD				CT: n/a VT: n/a							
Max momentary up thrust 3yr 1yr								935 lbs								1,369 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 1PC2832-1DB41-6TA3			Document number					
	© ABB 2024				Revision 01	Creation date 2024-05-18 22:52	Language en	Page 1/1	

CERTIFIED PRINT/CERTIFICACION

CUSTOMER/CLIENTE:

#PO/#ORDEN COMPRA:	#SO/#ORDEN CLIENTE:
--------------------	---------------------

HP:	RPM:	FRAME/ARM:	TYPE/TIPO:	VOLTS:	PH/FASES:	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

SIEMENS

© SIEMENS AG

2014 -

Tolerance DIN-1686-GTB-19	Surface	Material	Weight 0	Scale 1:1
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		
	Creator 2015-07-17 MARTINEZ			
	Approval			
	Department PD LD P MF-GDL PLM 3			
	Change Order			
SIEMENS	Doc State	Item No	Doc Type	
	Revision 001 Index RS AA	Doc No A5E36388125A	Paper Size	
			1st Language 2nd Language	
© SIEMENS AG 2014 -	Project No VSS (Vertical Solid shaft)	Ref No 2410255_AA+2210842_AA	Sheet	

PERMISSIBLE INDICATOR READINGS
LECTURAS PERMISIBLES INDICADOR DE CARATULA

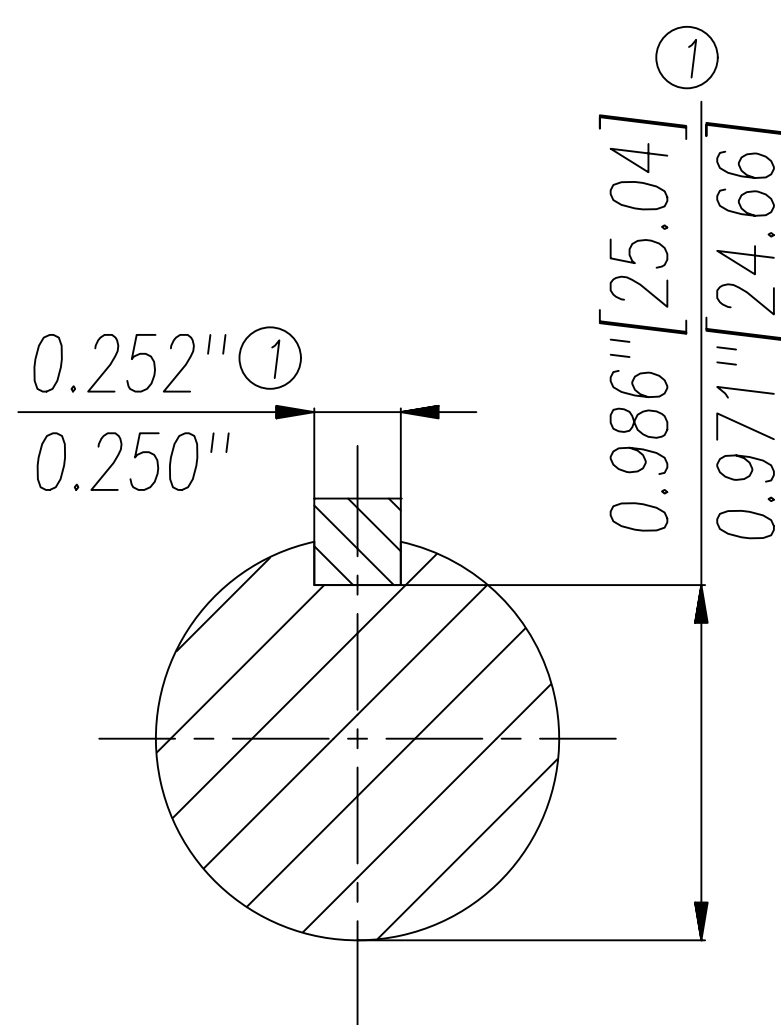
FACE RUNOUT OSCILACION BRIDA	MOUNTING RABBIT ECCENTRICITY EXCENRICIDAD MONTAJE	SHAFT RUNOUT OSCILACION EJE	AXIAL END PLAY JUEGO AXIAL	TYPE TIPO
0.004" [0.10]	0.004" [0.10]	0.001" [0.025]	0.002" [0.05]	LP100
		0.002" [0.05]	0.015" [0.38]	HP100

Reed Critical Frequency (CPM) Static Deflection (in)

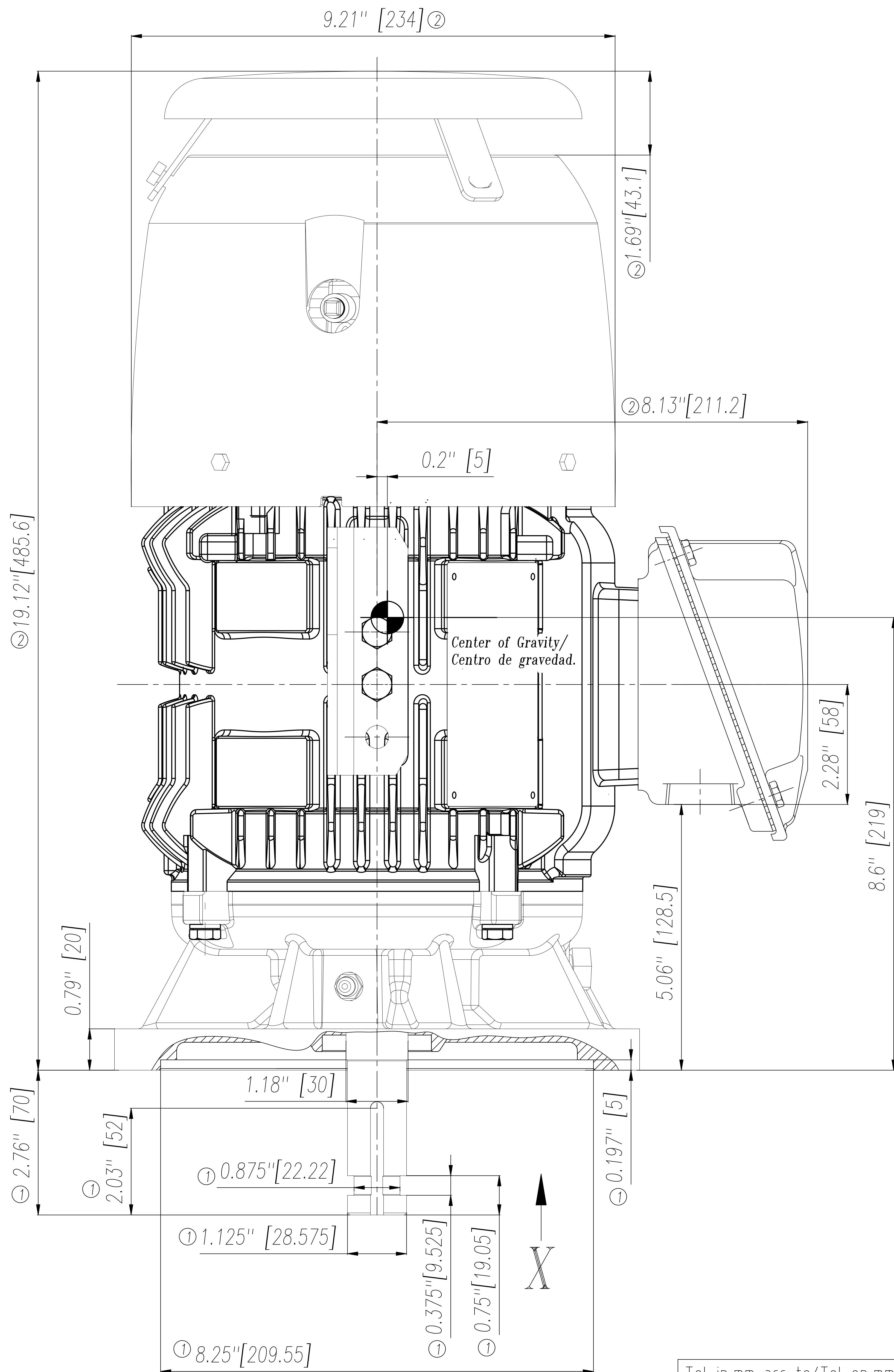
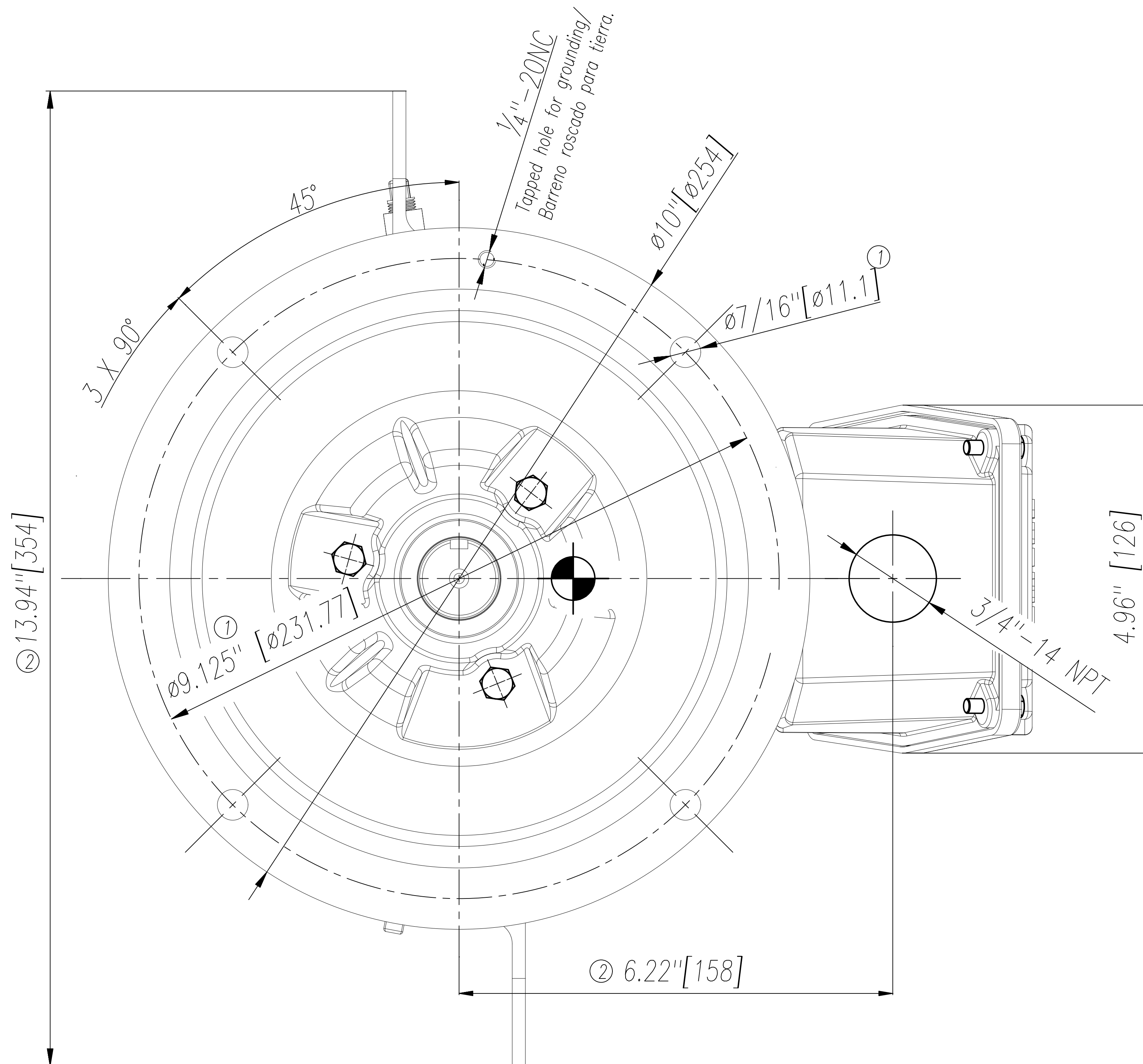
In Line with Box: 17700
90 Deg. from Box: 17727
±20% Tolerance

0.0001

<i>X View</i>
<i>Vista X</i>



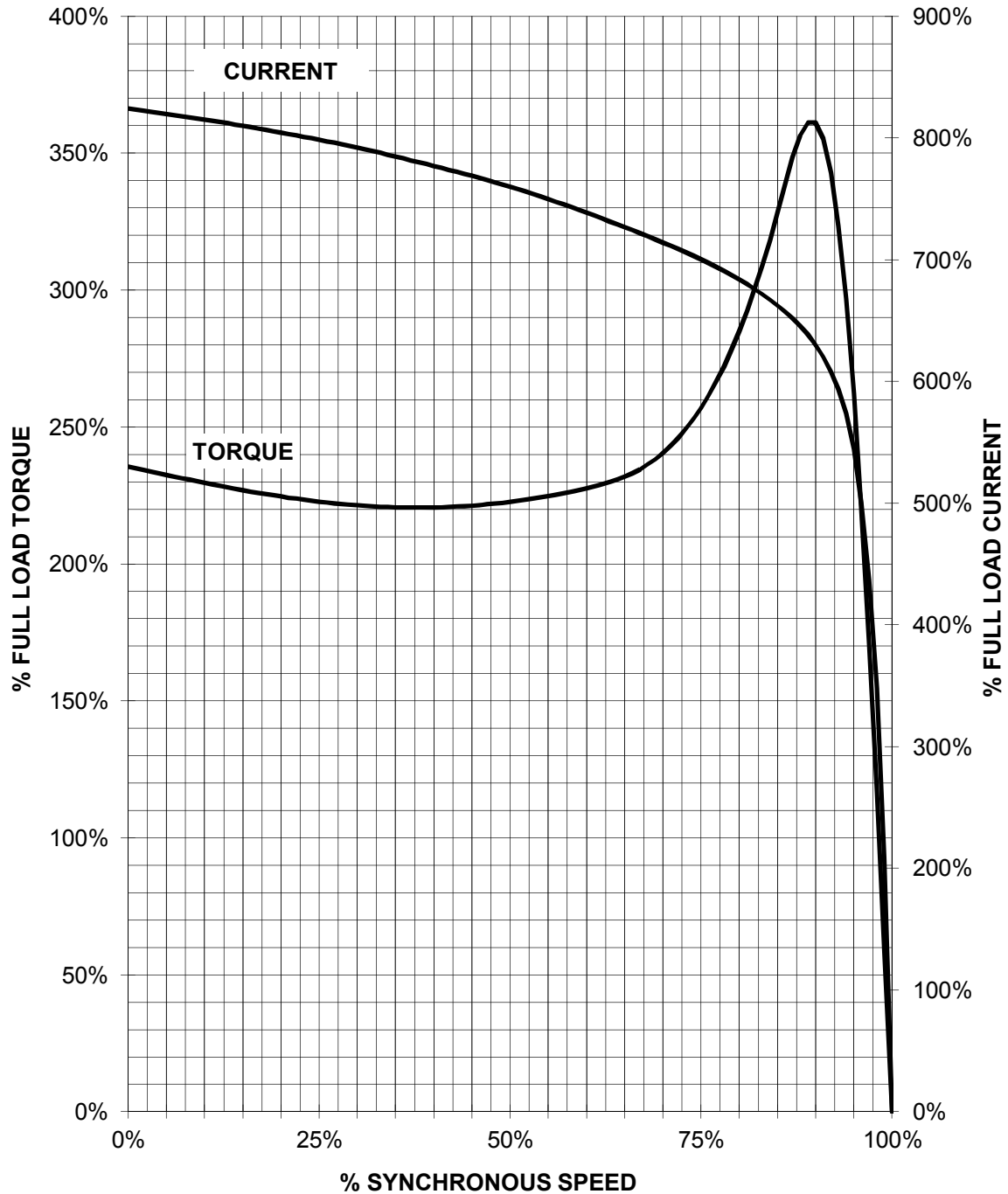
Keyseat detail
Detalle Cuñero



SIEMENS INDUSTRY, INC.

HP 3 VOLTS <600 1800 TYPE LP100
HZ 60 PHASE 3 FRAME 182LP NEMA B

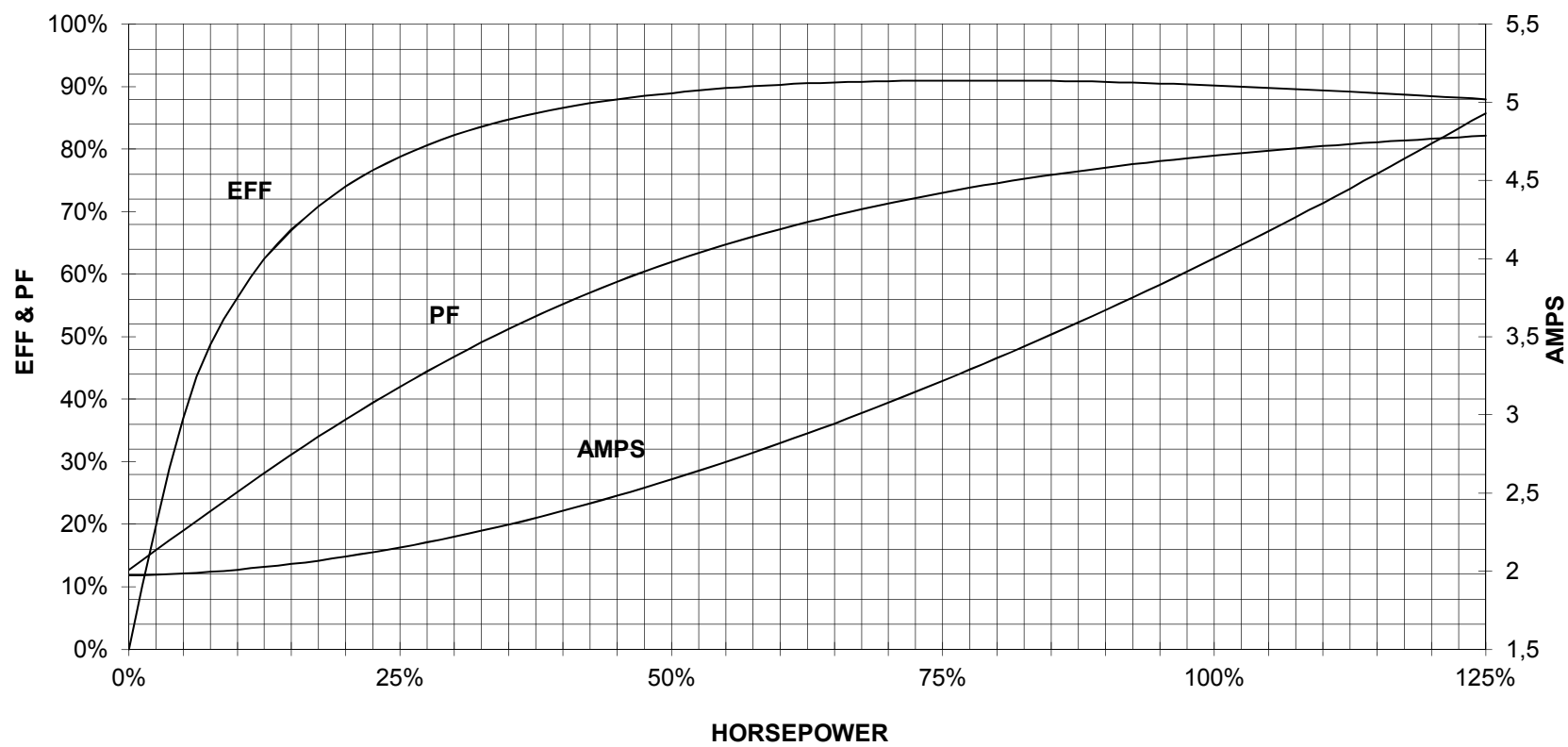
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

3 HP 1800 RPM 182LP FRAME 230/460 VOLTS 3 PHASE NEMA DESIGN B

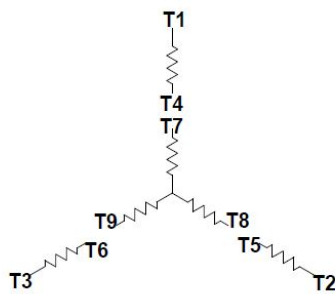
SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
LP100



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	

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

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 1PC2832-1DB41-6TA3			Document number WDS-240518-225211			
Restricted © Innomotics 2024				Revision AA	Creation date 2024-05-18	Language en	Page 1/1