

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

Motor type: (832) LP100 VSS In-Line Thrust FS: 184 LP - 4p - 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 [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	5.00		1,755	6.50	5.20	4.10	3.00	46.0	89.5	90.0	89.2	80.5	75.1	63.6	15.0	220	350	
230	Y Y	60	5.00		1,755	13.00	10.39	8.25	6.00	92.0	89.5	90.0	89.2	80.5	75.1	63.6	15.0	220	350	
400	Y	50	3.00		1,471	5.03	4.19	3.63	3.08	48.7	86.7	86.4	84.4	71.3	64.3	50.8	10.7	369	509	
200	Y Y	50	3.00		1,471	10.06	8.38	7.26	6.16	97.4	86.7	86.4	84.4	71.3	64.3	50.8	10.7	369	509	
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: 135 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				14 s			
Moment of inertia								1.0 Lb-ft²				Safe Stall Time Cold				29 s			
Ext Load Inertia Capability:								28.4 Lb ft²				Frame material				Cast iron			
Bearings								Color, paint shade				Standard Paint - RAL7030							
Bearing DE NDE					6206 C3 S0			7306 BG DB			Coating (paint finish)					Standard Alkyed + Epoxy (C2)			
Bearing_Type					Ball Bearing			Thrust Ball Bearing(2)			Ventilation Type								
AFBMA:					30BC03J30			30BT03MR3			Method of cooling					TEFC			
Rated Thrust								Direction of rotation				Bi-Directional							
Max Radial force					45 lbs			Fan Material			Plastic								
Max Down thrust 3yr 1yr					917 lbs			1,351 lbs			VFD					CT: n/a VT: n/a			
Max momentary up thrust 3yr 1yr					923 lbs			1,357 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

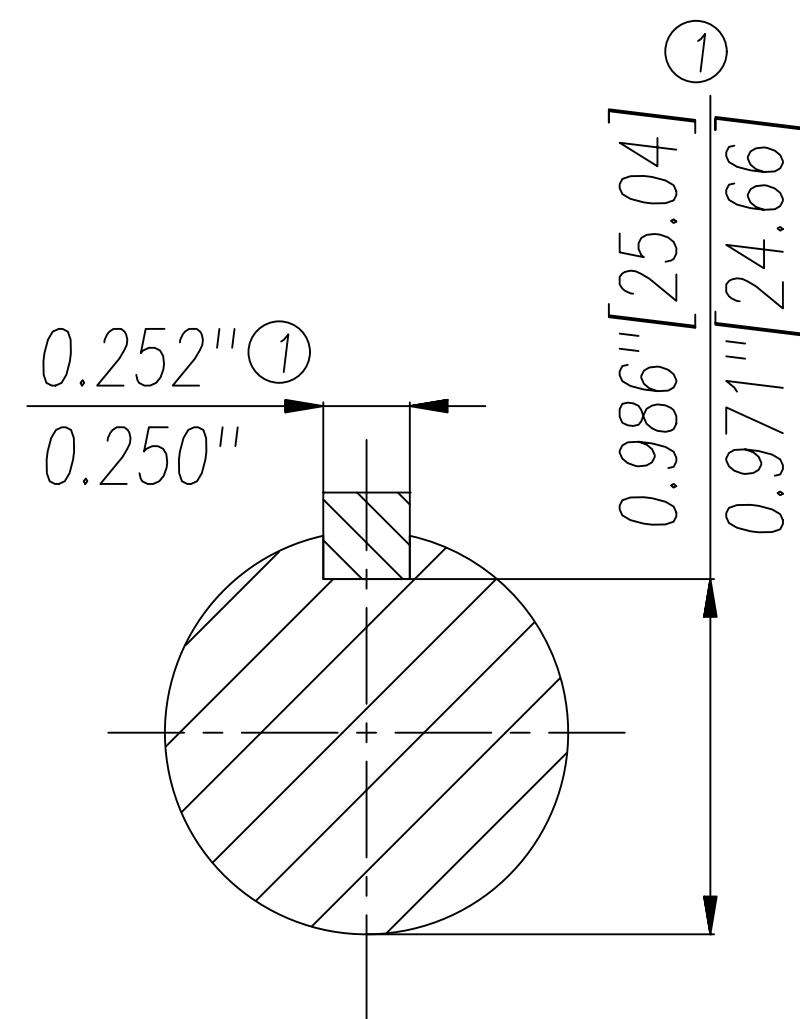
M_b/M_N = break down torque / nominal torque

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			
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	© ABB 2024				Revision 01	Creation date 2024-05-25 16:08	Language en

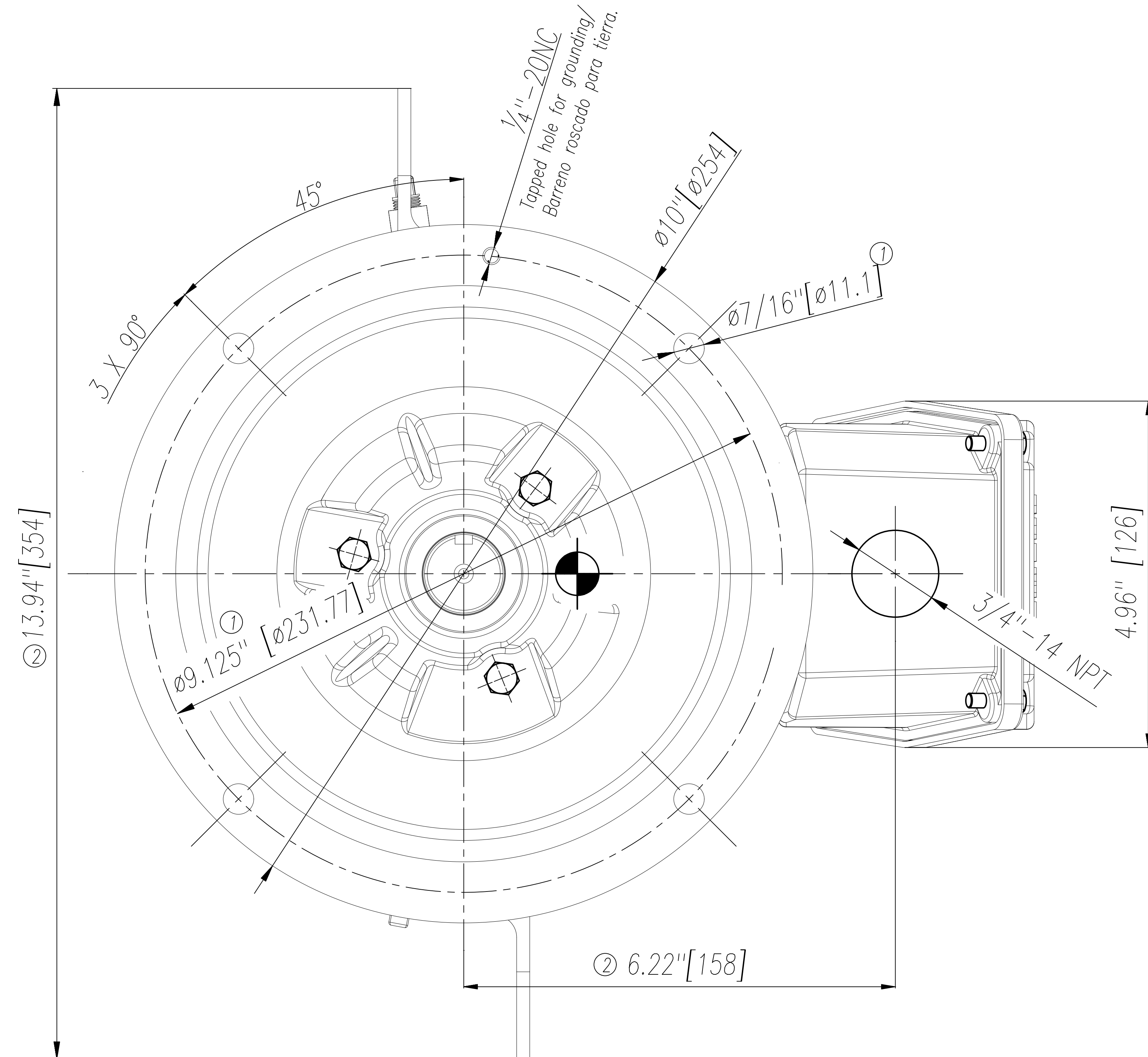
CERTIFIED PRINT/CERTIFICACION						
CUSTOMER/CLIENTE:						
#PO/#ORDEN COMPRA:			#SO/#ORDEN CLIENTE:			
HP:	RPM:	FRAME/ARM:	TYPE/TIPO:	VOLTS:	PH/FASES:	HZ:



SIEMENS

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

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							
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		Revision 001 Index RS AA		Doc No A5E36388125A				Paper Size IEC-A3	
								1st Language en 2nd Language de	
© SIEMENS AG 2014 -		Project No VSS (Vertical Solid shaft)		Ref No 2410255_AA+2210842_AA				Sheet of	



X View

Vista X

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)
10	0.0000
20	0.0000
30	0.0000
40	0.0000
50	0.0000
60	0.0000
70	0.0000
80	0.0000
90	0.0000
100	0.0000
110	0.0000
120	0.0000
130	0.0000
140	0.0000
150	0.0000
160	0.0000
170	0.0000
180	0.0000
190	0.0000
200	0.0000
210	0.0000
220	0.0000
230	0.0000
240	0.0000
250	0.0000
260	0.0000
270	0.0000
280	0.0000
290	0.0000
300	0.0000
310	0.0000
320	0.0000
330	0.0000
340	0.0000
350	0.0000
360	0.0000
370	0.0000
380	0.0000
390	0.0000
400	0.0000
410	0.0000
420	0.0000
430	0.0000
440	0.0000
450	0.0000
460	0.0000
470	0.0000
480	0.0000
490	0.0000
500	0.0000
510	0.0000
520	0.0000
530	0.0000
540	0.0000
550	0.0000
560	0.0000
570	0.0000
580	0.0000
590	0.0000
600	0.0000
610	0.0000
620	0.0000
630	0.0000
640	0.0000
650	0.0000
660	0.0000
670	0.0000
680	0.0000
690	0.0000
700	0.0000
710	0.0000
720	0.0000
730	0.0000
740	0.0000
750	0.0000
760	0.0000
770	0.0000
780	0.0000
790	0.0000
800	0.0000
810	0.0000
820	0.0000
830	0.0000
840	0.0000
850	0.0000
860	0.0000
870	0.0000
880	0.0000
890	0.0000
900	0.0000
910	0.0000
920	0.0000
930	0.0000
940	0.0000
950	0.0000
960	0.0000
970	0.0000
980	0.0000
990	0.0000
1000	0.0000

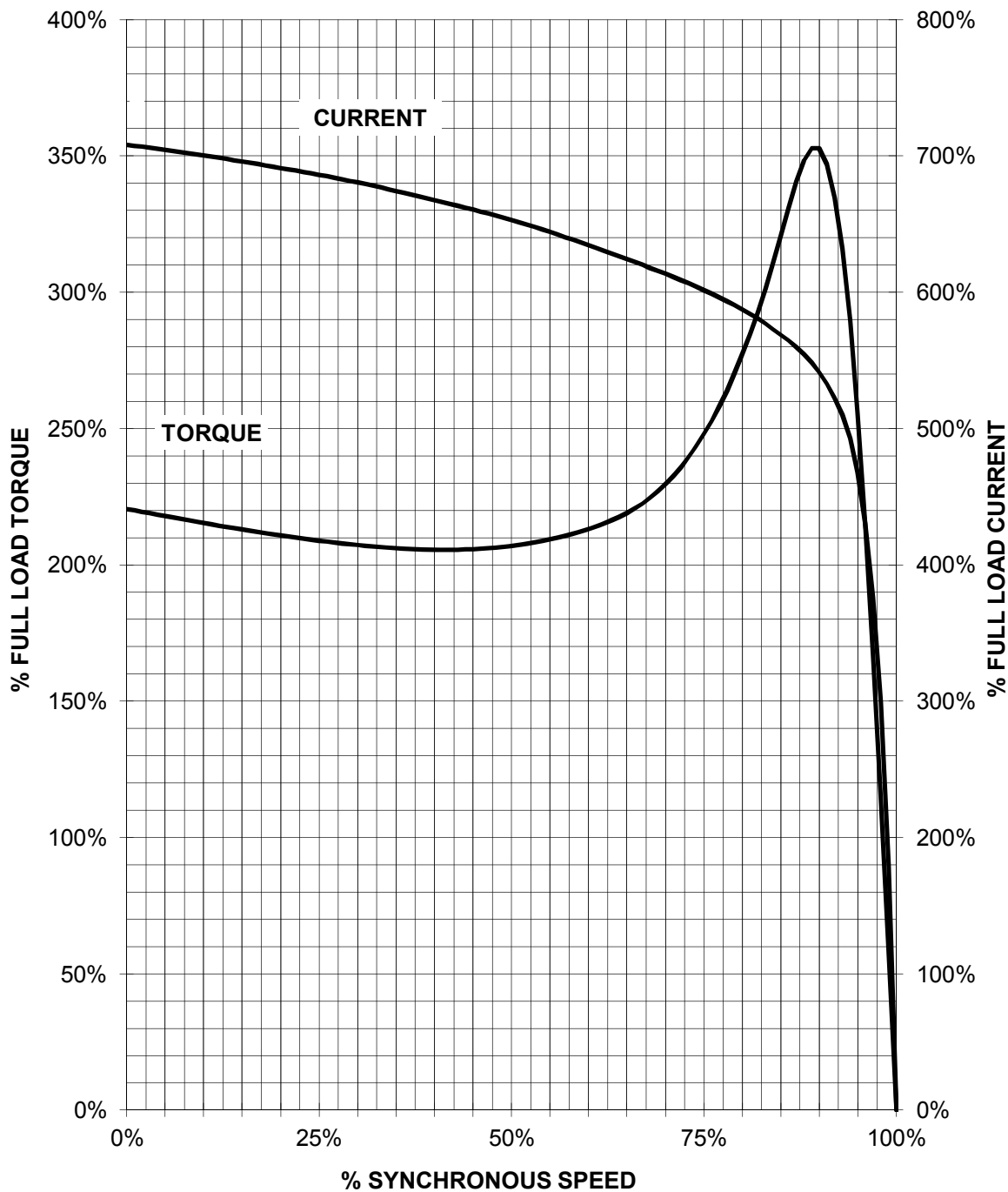
In Line with Box: 17700
90 Deg. from Box: 17727
±20% Tolerance

0.0001

SIEMENS INDUSTRY, INC.

HP 5 VOLTS <600 1800 TYPE LP100
HZ 60 PHASE 3 FRAME 184LP NEMA B

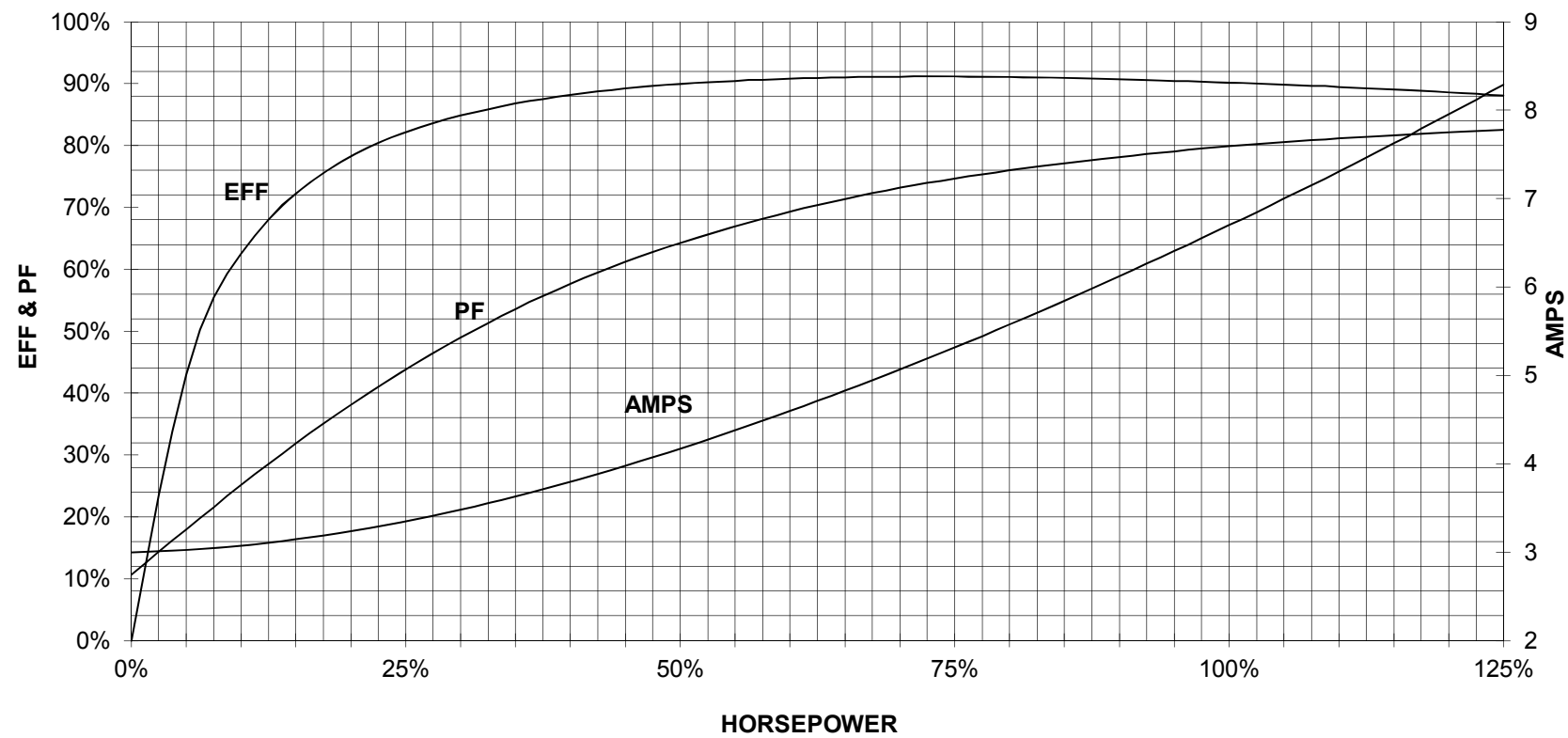
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

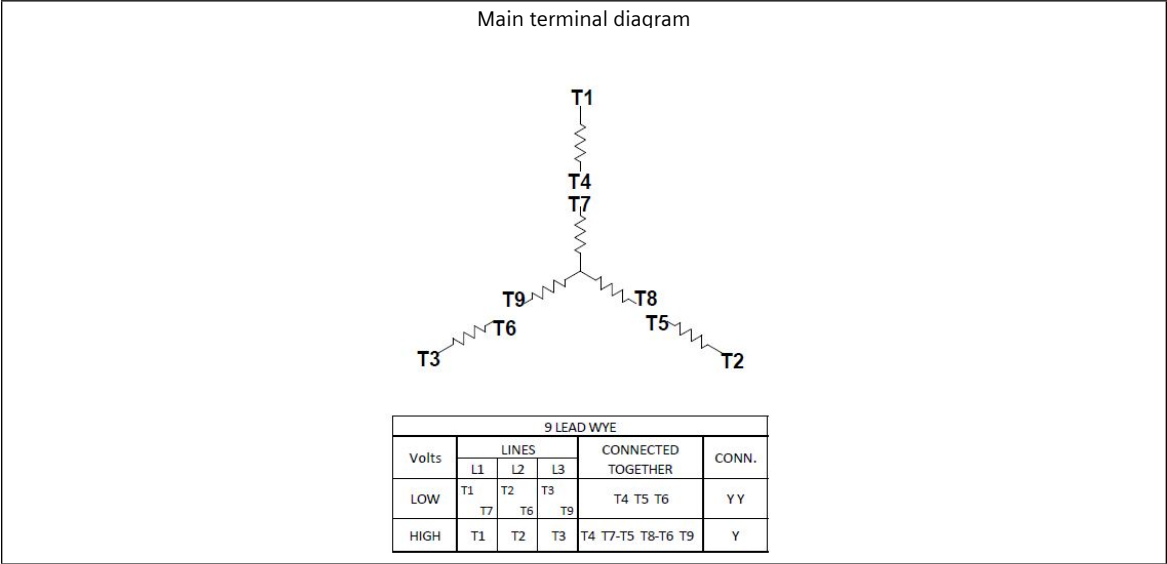
5 HP 1800 RPM 184LP FRAME 230/460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
LP100



CUSTOMER _____ ORDER # _____ PO # _____

PERFORMANCE BASED ON DESIGN CALCULATIONS. SUBJECT TO CHANGE WITHOUT NOTICE.
REV. 1



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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 1PC2832-1DB51-6TA3		Document number WDS-240525-160842		
Restricted © Innomotics 2024			Revision AA	Creation date 2024-05-25	Language en
					Page 1/1