

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

Motor type: (832) LP100 VSS In-Line Thrust FS: 254 LP - 2p - 15 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	15.00		3,530	17.50	13.20	9.60	5.10	116.0	91.0	91.3	90.7	88.2	87.4	80.6	22.0	210	260	
230	Y Y	60	15.00		3,530	35.00	26.40	19.21	10.20	232.0	91.0	91.3	90.7	88.2	87.4	80.6	22.0	210	260	
400	Y	50	10.00		2,960	13.10	10.35	7.87	4.78	120.2	90.1	89.4	87.3	89.3	85.4	76.6	17.8	458	665	
200	Y Y	50	10.00		2,960	26.20	20.70	15.74	9.56	240.4	90.1	89.4	87.3	89.3	85.4	76.6	17.8	458	665	
Frame Type: 254 LP			Type of constr.: (T) Vertical P-Base										Motor Prot.: (A) No winding protection				NEMA Des.: B		S.F.: 1.15	
Mtr. WT:309 lbs			Insulation Class.:Class F Insulation							Temp. Rise Cl.: B			Amb. Temp.: + 40 to -20 °C @1000 m				kVA: G		IP IP55	

Mechanical data

Sound level (SPL / SWL) at 60 Hz								67.0 dB(A) / 79.0 dB(A)		Capacity		1.7 oz	1.7 oz	
Octave Band Center Frequencies Hertz								Grease Type:		Exxon Mobile EM				
	250	500	1000	2000	4000	8000	Hz	Thickener		Polyurea				
SPL@3	54.0	56.0	63.0	62.0	60.0	48.0	dB(A)	Safe Stall Time Hot		24 s				
Moment of inertia								3.7 Lb-ft²		Safe Stall Time Cold		48 s		
Ext Load Inertia Capability:								16.7 Lb ft²		Frame material		Cast iron		
Bearings										Color, paint shade		Standard Paint - RAL7030		
Bearing DE NDE				6309 C3 S0		7309 BG DB		Coating (paint finish)		Standard Alkyed + Epoxy (C2)				
Bearing_Type				Ball Bearing		Thrust Ball Bearing(2)		Ventilation Type						
AFBMA:				45BC03J30		45BT03MR3		Method of cooling		TEFC				
Rated Thrust										Direction of rotation		Bi-Directional		
Max Radial force					75 lbs			Fan Material		Plastic				
Max Down thrust 3yr 1yr					1,218 lbs		1,811 lbs		VFD		CT: n/a VT: n/a			
Max momentary up thrust 3yr 1yr					1,251 lbs		1,843 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		1.25" 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

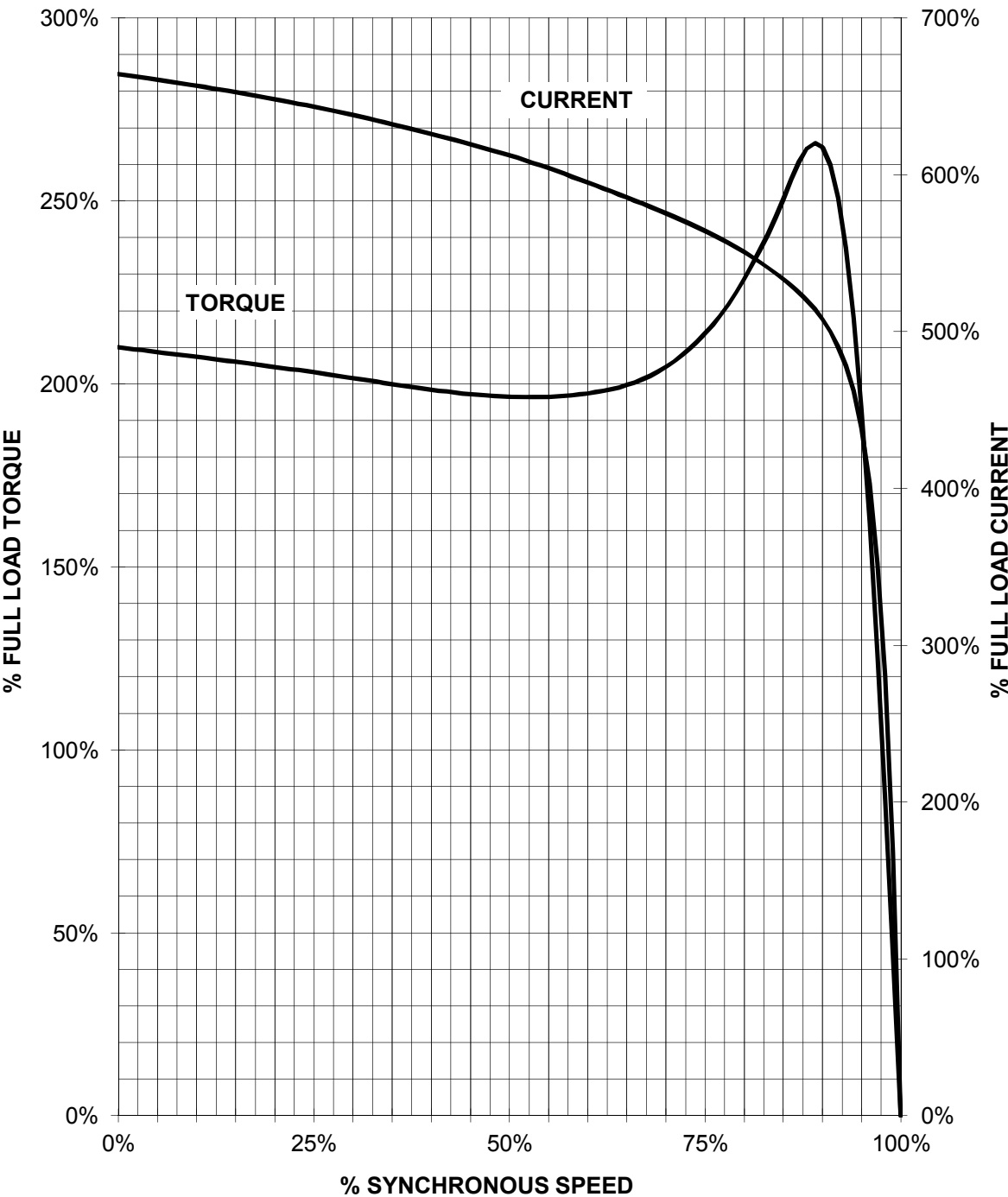
Responsible department IN LVM		Technical reference	Created by SPC	Approved by	Technical data are subject to change! There may be discrepancies				
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Tolerance DIN 1686	Surface	Material	Weight 0	Scale 1:1
1PC28322B____TA3 T-9042	Author VAZQUEZ PERALES	Outline LP100 FS250 VSS, LP100, FS250, 2-6 Poles. Dimensional LP100, Arm. 250 VSS, LP100, Arm. 250, 2-6 polos.		
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SIEMENS INDUSTRY, INC.

HP 15 VOLTS <600 3600 TYPE LP100
HZ 60 PHASE 3 FRAME 254LP NEMA B

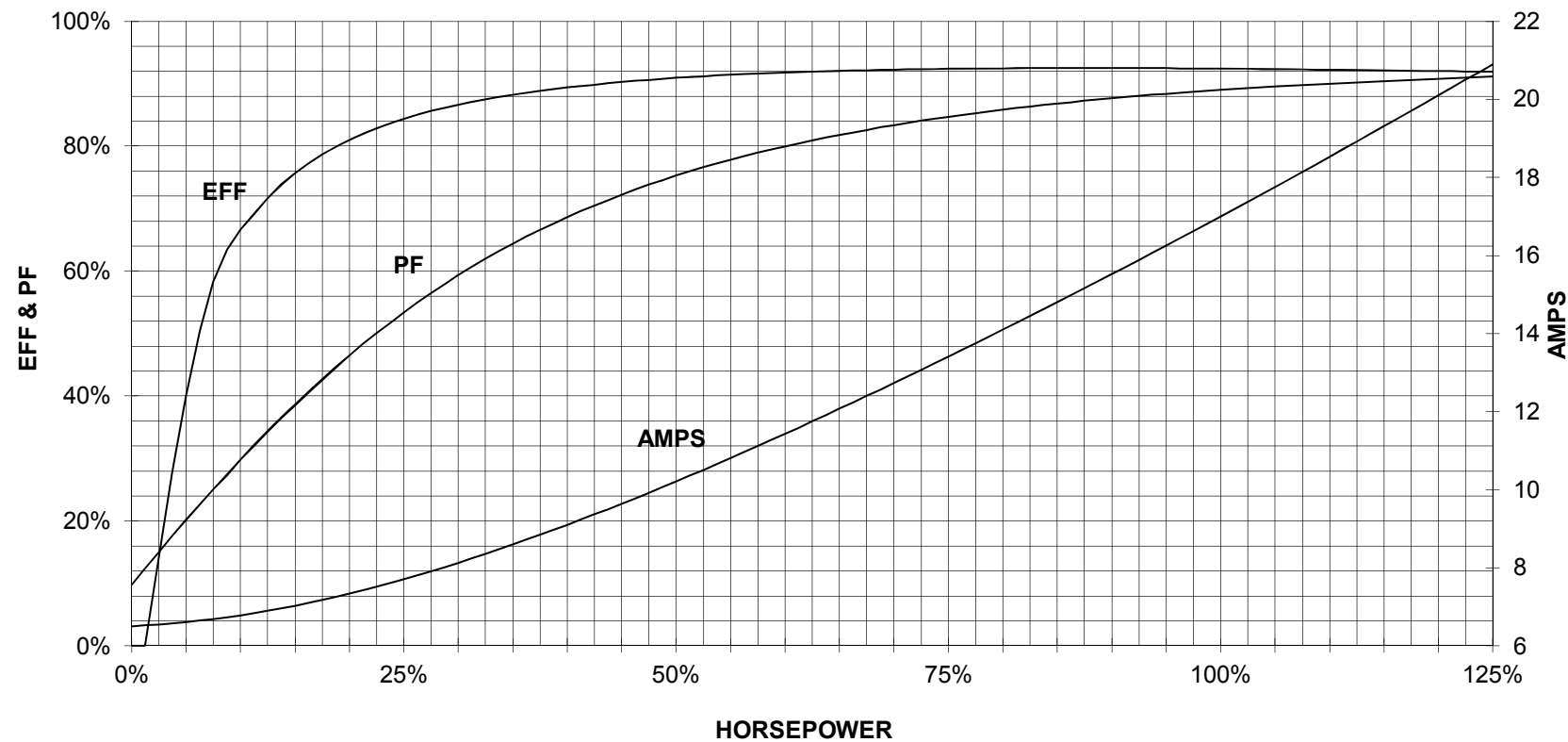
TORQUE & CURRENT VS. SPEED



CUSTOMER: ORDER#:

15 HP 3600 RPM 254LP FRAME 230/460 VOLTS 3 PHASE NEMA DESIGN B

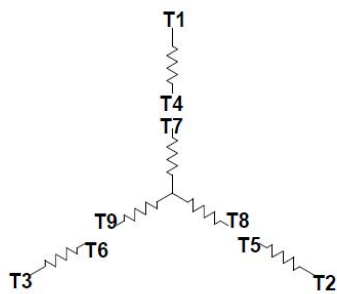
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PERFORMANCE CURVE
LP100



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	

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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	
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