

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

Motor type: (832) LP100 VSS In-Line Thrust FS: 215 LP - 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 LP			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)			
Octave Band Center Frequencies Hertz							
	250	500	1000	2000	4000	8000	Hz
SPL@3	37.0	44.0	54.0	53.0	44.0	35.0	dB(A)
Moment of inertia				2.8 Lb-ft²			
Ext Load Inertia Capability:				54.7 Lb ft²			
Bearings							
Bearing DE NDE			6209 C3 S0		7309 BG DB		
Bearing_Type			Ball Bearing		Thrust Ball Bearing(2)		
AFBMA:			45BC03J30		45BT03MR3		
Rated Thrust							
Max Radial force				73 lbs			
Max Down thrust 3yr 1yr				1,571 lbs		2,317 lbs	
Max momentary up thrust 3yr 1yr				1,593 lbs		2,338 lbs	
Grease							

Capacity	0.92 oz	1.6 oz
Grease Type:	Exxon Mobile EM	
Thickener	Polyurea	
Safe Stall Time Hot	20 s	
Safe Stall Time Cold	36 s	
Frame material	Cast iron	
Color, paint shade	Standard Paint - RAL7030	
Coating (paint finish)	Standard Alkyed + Epoxy (C2)	
Ventilation Type		
Method of cooling	TEFC	
Direction of rotation	Bi-Directional	
Fan Material	Plastic	
VFD	CT: n/a VT: n/a	
Space heaters	-/-	
Brake:	-/-	

Terminal box									
Lead Wire Connection					9 LEAD - WYE				
Voltage	L1	L2	L3	Connected together	Terminal box position		(3) Mounting - F-1		
					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

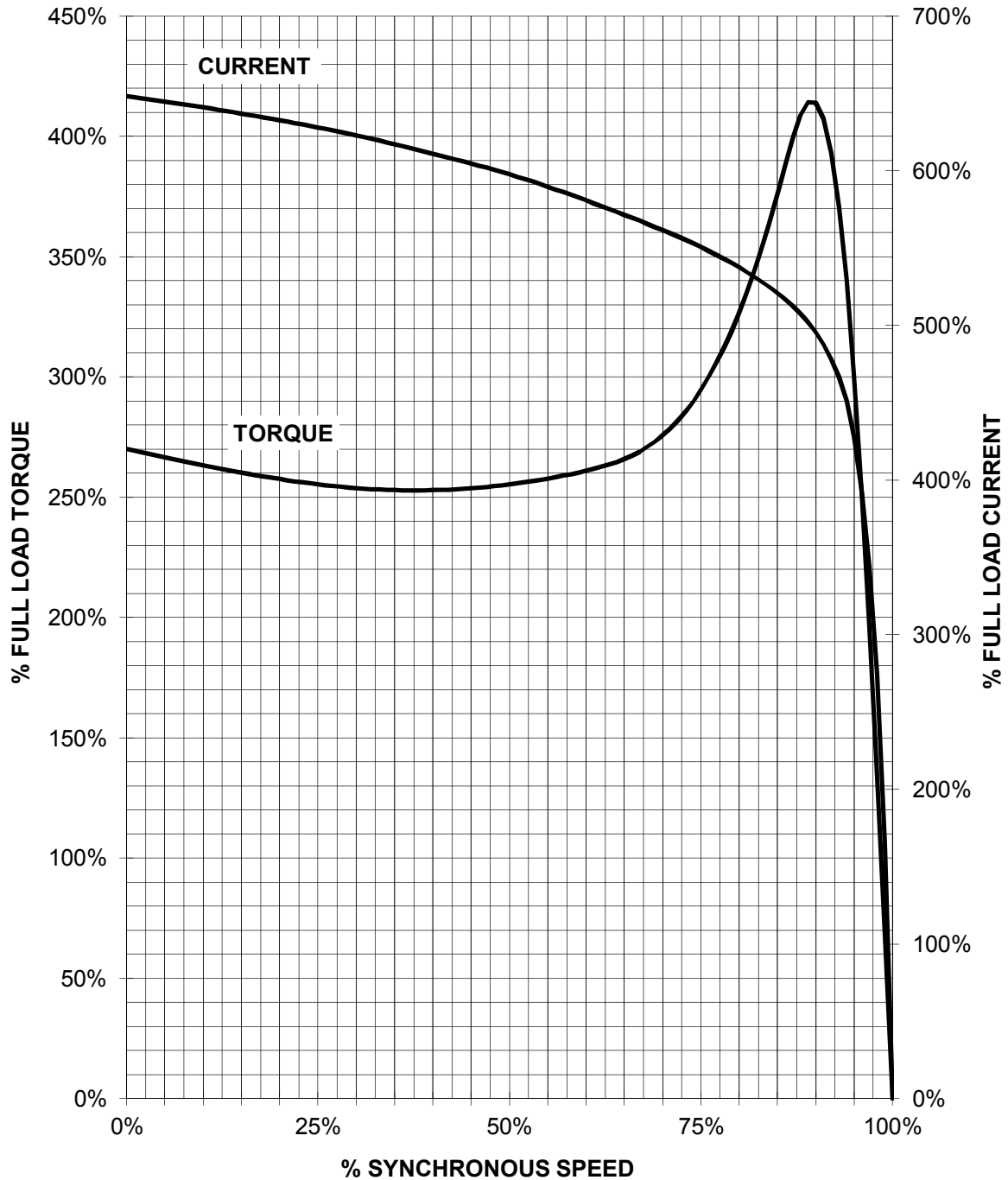
3) Value is valid only for DOL operation with motor design IC411
2) at rated power / at full load

Responsible department IN LVM		Technical reference		Created by SPC		Approved by		Technical data are subject to change! There may be discrepancies			
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		© ABB 2024						Revision 01	Creation date 2024-05-18 20:54		Language en

SIEMENS INDUSTRY, INC.

HP 10 VOLTS <600 1800 TYPE LP100
HZ 60 PHASE 3 FRAME 215LP NEMA B

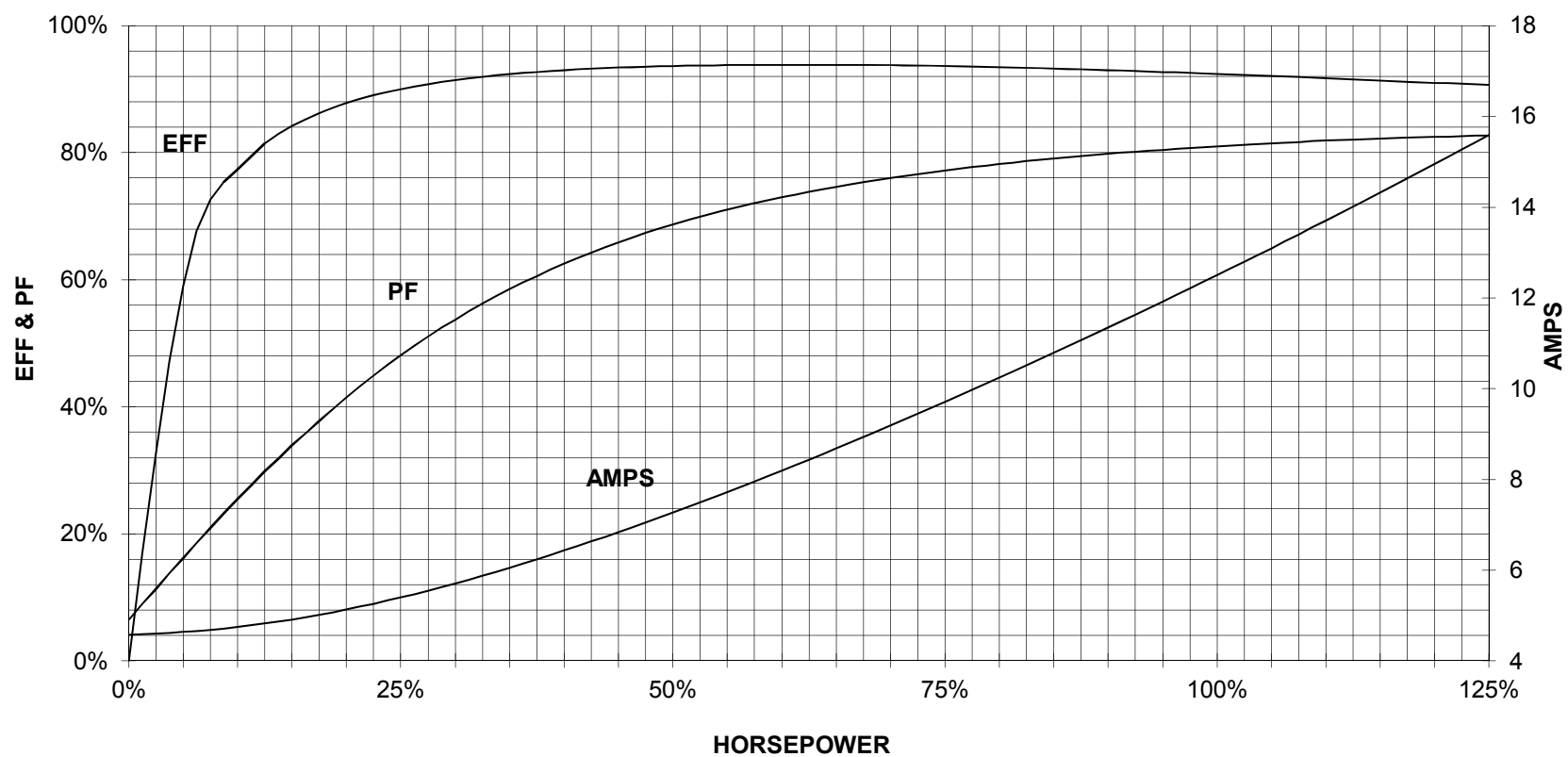
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

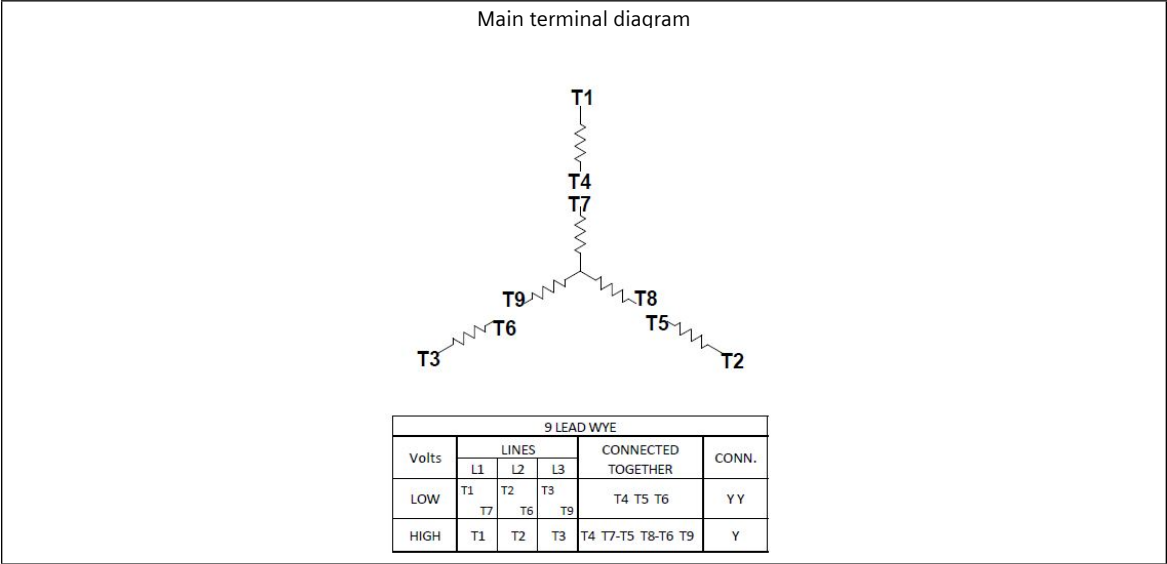
10 HP 1800 RPM 215LP FRAME 230/460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
LP100



CUSTOMER _____ ORDER # _____ PO # _____

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



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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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