

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

Motor type: (822) HP100 VSS Normal Thrust FS: 213 HP - 4p - 7.5 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	7.50		1,765	9.70	7.90	6.40	5.00	63.0	91.7	91.7	90.7	78.9	72.3	60.5	22.0	270	450	
230	Y Y	60	7.50		1,765	19.40	15.89	12.80	10.00	126.0	91.7	91.7	90.7	78.9	72.3	60.5	22.0	270	450	
400	Y	50	5.00		1,473	7.43	6.20	5.16	4.12	67.0	88.4	88.2	86.8	78.6	70.8	57.6	17.8	287	341	
200	Y Y	50	5.00		1,473	14.86	12.40	10.32	8.24	134.0	88.4	88.2	86.8	78.6	70.8	57.6	17.8	287	341	
Frame Type: 213 HP			Type of constr.: (T) Vertical P-Base										Motor Prot.: (A) No winding protection				NEMA Des.: B		S.F.: 1.15	
Mtr. WT: 211 lbs			Insulation Class.: Class F Insulation							Temp. Rise Cl.: B			Amb. Temp.: + 40 to -20 °C @1000 m				kVA: J		IP IP55	

Mechanical data

Sound level (SPL / SWL) at 60 Hz								57.0 dB(A) / 69.0 dB(A)		Capacity		0.9 oz	1.6 oz
Octave Band Center Frequencies Hertz								Grease Type: Exxon Mobile EM					
250 500 1000 2000 4000 8000 Hz								Thickener Polyurea					
SPL@3	37.0	44.0	54.0	53.0	44.0	35.0	dB(A)	Safe Stall Time Hot 25 s					
Moment of inertia								Safe Stall Time Cold 42 s					
Ext Load Inertia Capability:								Frame material Cast iron					
Bearings								Color, paint shade Standard Paint - RAL7030					
Bearing DE NDE				6209 C3 S0		6309 C3 S0 DB		Coating (paint finish) Standard Alkyed + Epoxy (C2)					
Bearing_Type				Ball Bearing		Ball Bearing (2)		Ventilation Type					
AFBMA:				45BC02J30		45BC03J30		Method of cooling TEFC					
Rated Thrust								Direction of rotation Bi-Directional					
Max Radial force				66 lbs				Fan Material Plastic					
Max Down thrust 3yr 1yr				1,425 lbs		2,102 lbs		VFD CT: n/a VT: n/a					
Max momentary up thrust 3yr 1yr				1,448 lbs		2,123 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" 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

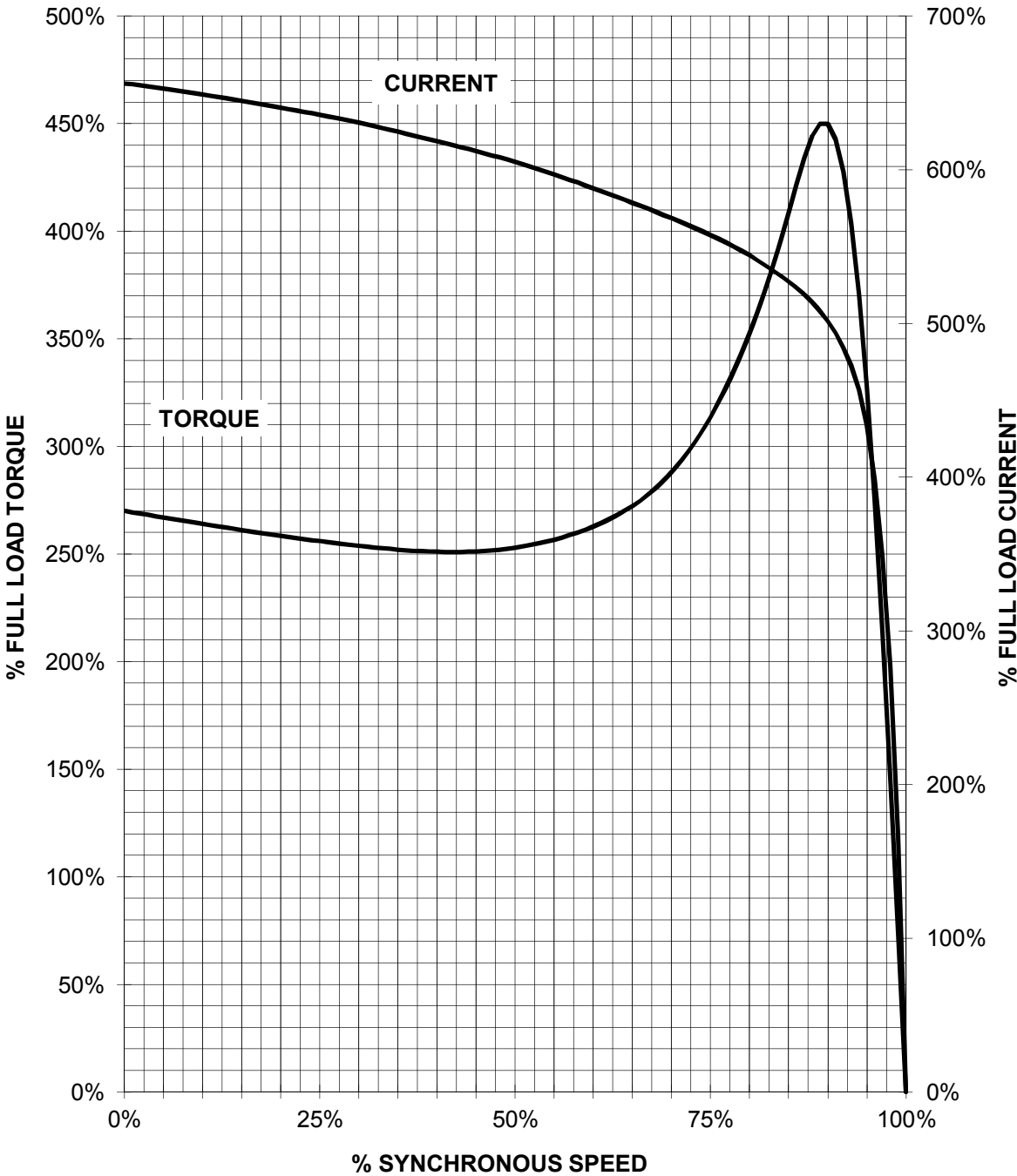
3) Value is valid only for DOL operation with motor design IC411
2) at rated power / at full load

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 1PC2822-2AB31-6TA3			Document number			
	© ABB 2024				Revision 01	Creation date 2024-05-18 22:37	Language en

SIEMENS INDUSTRY, INC.

HP 7,5 VOLTS <600 1800 TYPE HP100
HZ 60 PHASE 3 FRAME 213HP NEMA B

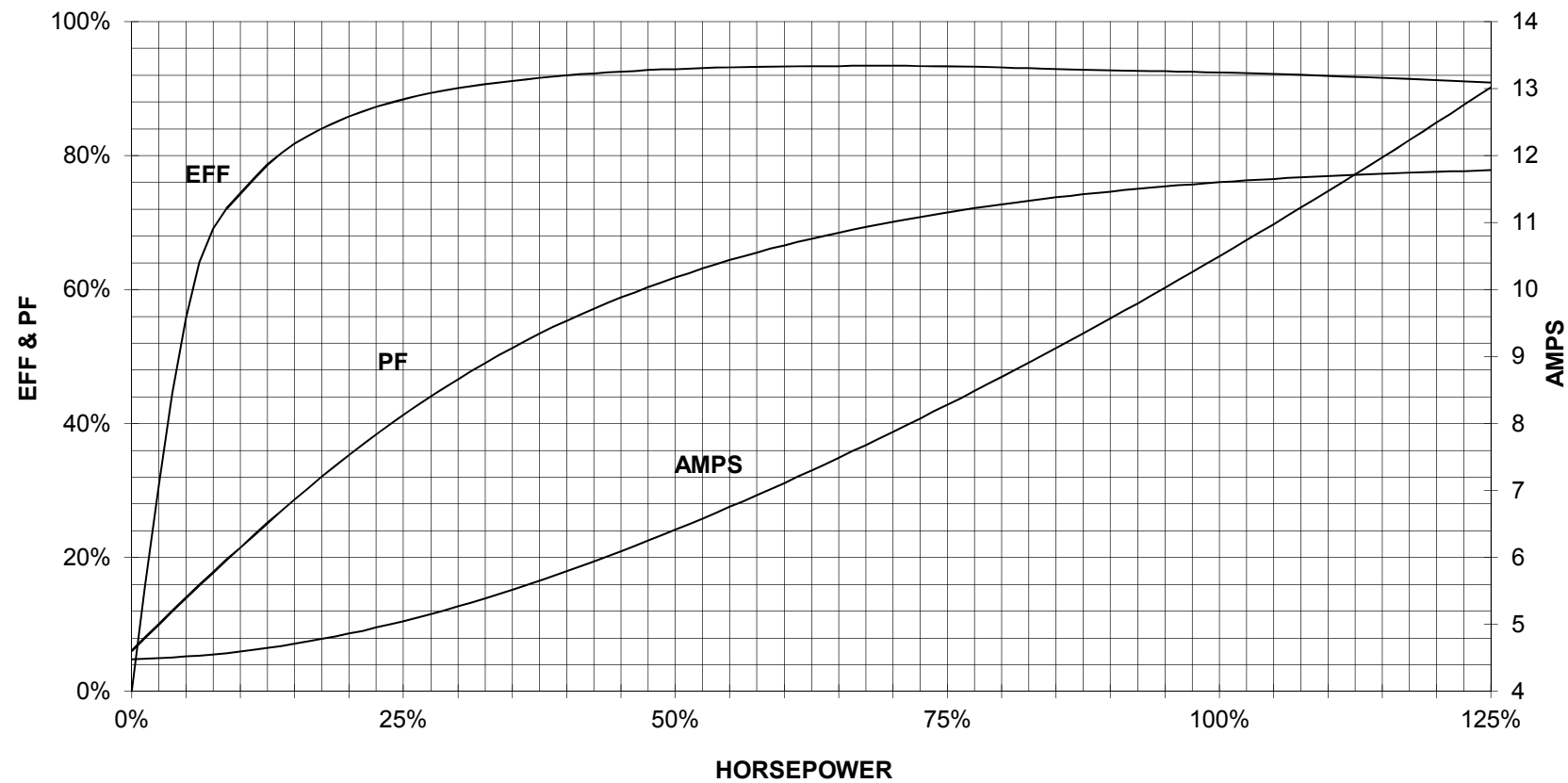
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

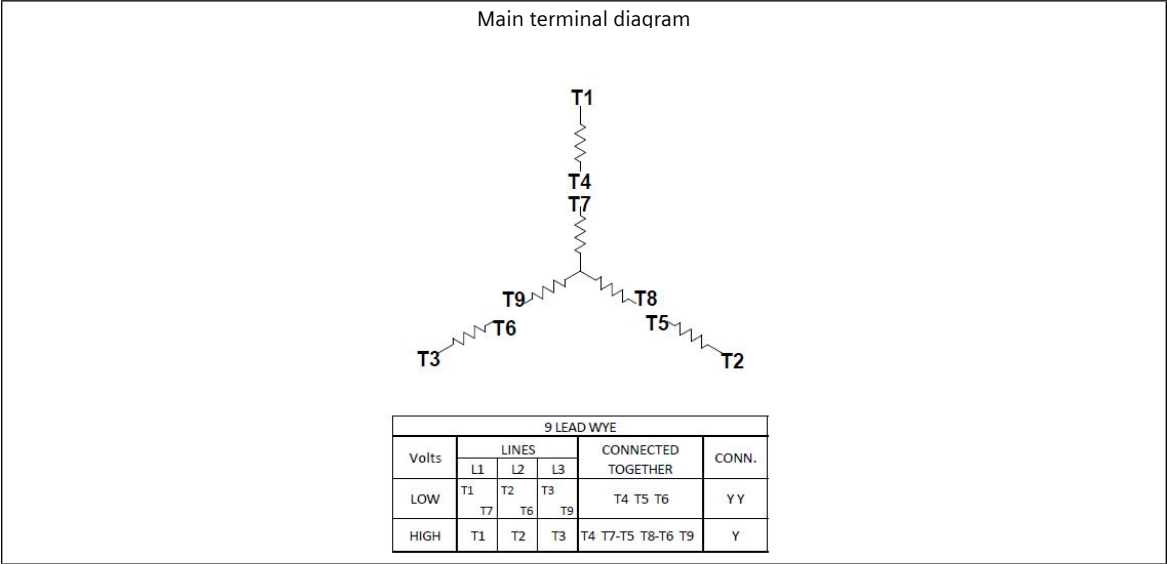
7.5 HP 1800 RPM 213HP FRAME 230/460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
HP100



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 1PC2822-2AB31-6TA3			Document number WDS-240518-223738	
Restricted © Innomotics 2024				Revision AA	
				Creation date 2024-05-18	Language en
					Page 1/1