

Data sheet for three-phase Squirrel-Cage-Motors ABB		
Motor type: (822) HP100 VSS Normal Thrust FS: 182 HP - 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]					Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque [lb-ft]	T _A /T _N LRT [%]	T _k /T _N BDT [%]		
						4/4	3/4	1/2	0	LRC	4/4	3/4	2/4	4/4	3/4	2/4					
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	YY	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	YY	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 HP			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)			
Octave Band Center Frequencies Hertz							
	250	500	1000	2000	4000	8000	Hz
SPL@3	42.0	46.0	54.0	49.0	43.0	32.0	dB(A)
Moment of inertia				0.8 Lb-ft²			
Ext Load Inertia Capability:				17.4 Lb ft²			
Bearings							
Bearing DE NDE				6206 C3 S0		6206 C3 S0 DB	
Bearing_Type				Ball Bearing		Ball Bearing (2)	
AFBMA:				30BC02J30		30BC02J30	
Rated Thrust							
Max Radial force				39 lbs			
Max Down thrust 3yr 1yr				764 lbs		1,126 lbs	
Max momentary up thrust 3yr 1yr				772 lbs		1,134 lbs	
Grease							
Capacity				0.7 oz		1.3 oz	
Grease Type:				Exxon Mobile EM Polyurea			
Thickener							
Safe Stall Time Hot				17 s			
Safe Stall Time Cold				29 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
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9

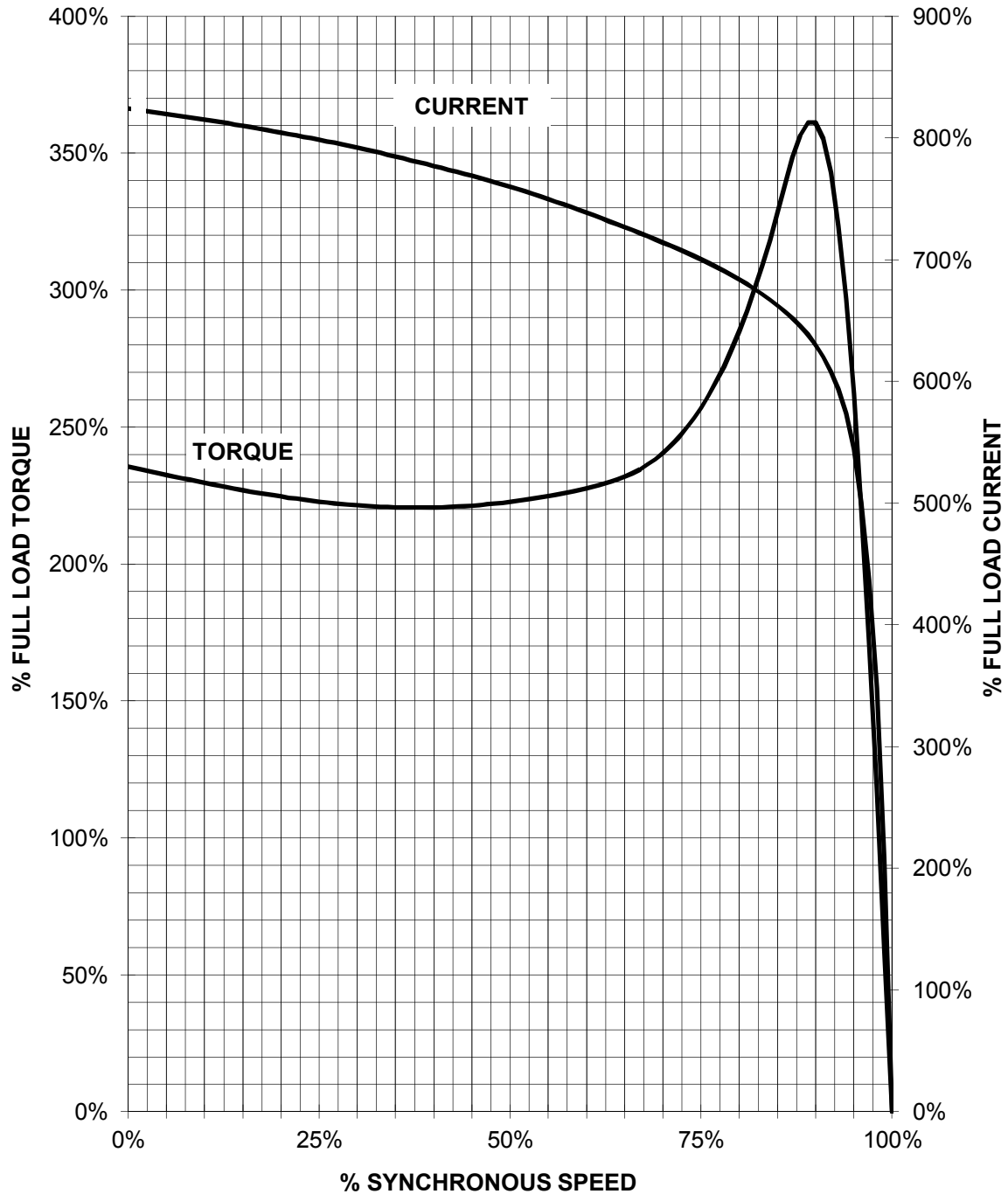
Notes:	
I_{Lr}/I_N = locked rotor current / current nominal	3) Value is valid only for DOL operation with motor design IC411
M_{Lr}/M_N = locked rotor torque / torque nominal	2) at rated power / at full load
M_k/M_N = break down torque / nominal torque	

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 2024-05-26 15:06	Language en	Page 1/1	

SIEMENS INDUSTRY, INC.

HP 3 VOLTS <600 1800 TYPE HP 100
HZ 60 PHASE 3 FRAME 182HP NEMA B

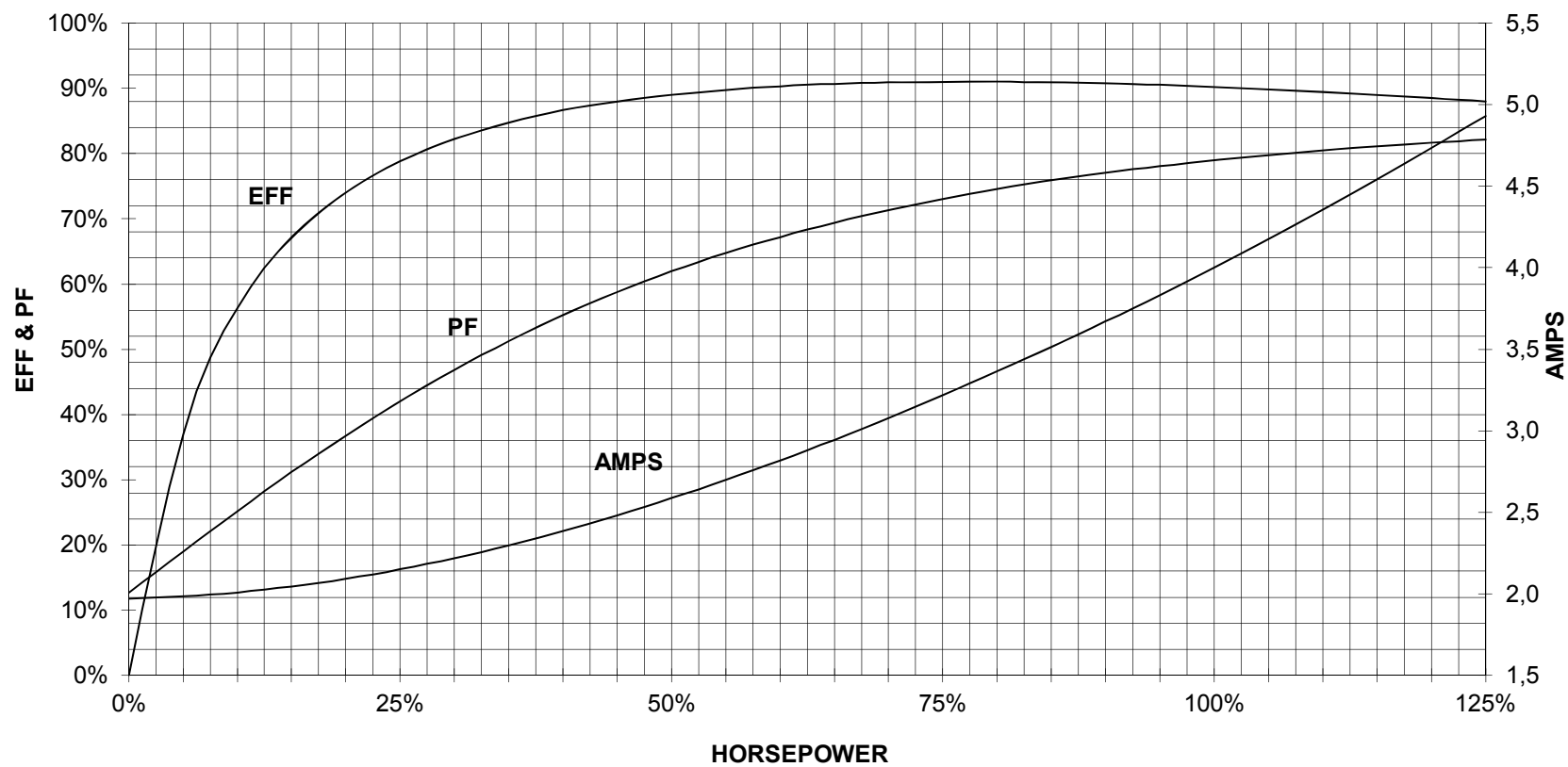
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

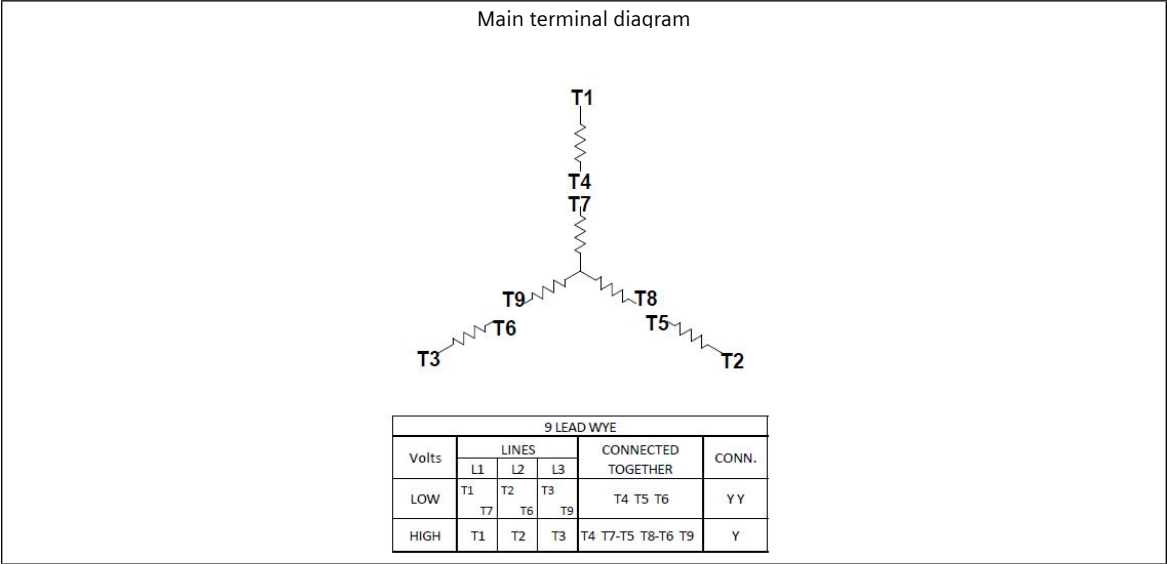
3 HP 1800 RPM 182HP FRAME 230/460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
HP100



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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