

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

Motor type: SD100 IEEE FS: 215T - 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, T3

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	7.50	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	
Frame Type: 215T			Type of constr.: (A) Foot mounted - End shield							Ins. Cl.:Standard Class F Insulation		Motor Prot.:(A) Without Protection					NEMA Des.: B		S.F.: 1.15	
Mtr. WT:180										Temp. Rise Cl.: B		Amb. Temp.: + 40 to -20 °C @1000 m					kVA: H		IP 55	

Mechanical data

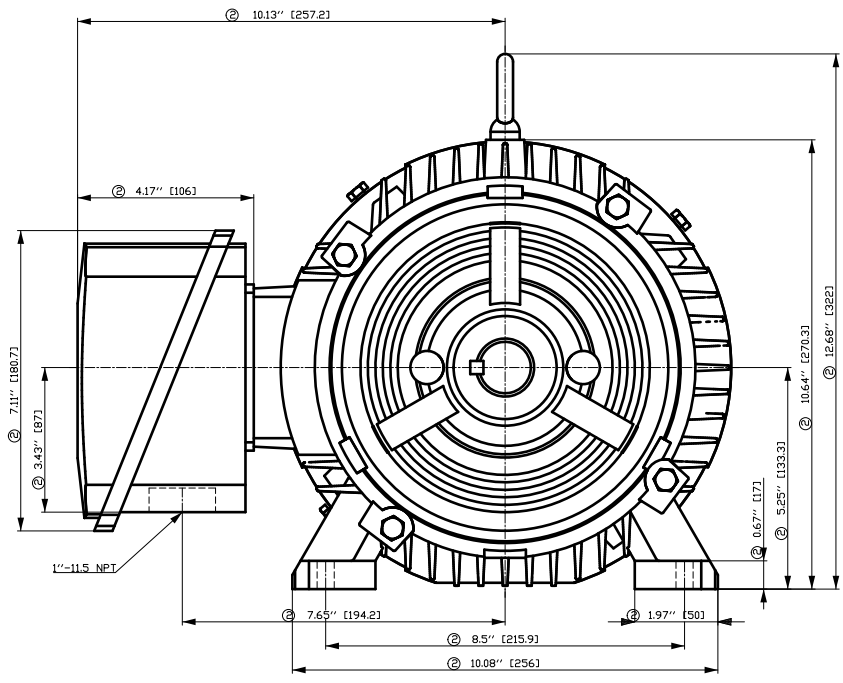
Sound level (SPL / SWL) at 60 Hz				57.0 dB(A) / 69.0 dB(A)				Thickener		Polyurea			
Octave Band Center Frequencies Hertz								Safe Stall Time Hot				20 s	
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold				36 s	
SPL@3	37.0	44.0	54.0	53.0	44.0	35.0	dB(A)	Frame material				cast iron	
Moment of inertia					0.9 Lb-ft²			Color, paint shade				Standard Paint - RAL7030	
Ext Load Inertia Capability:					51.0 Lb ft²			Coating (paint finish)				Standard Alkyed + Epoxy (C2)	
Bearings								Ventilation Type					
Bearing DE NDE				6208 Z C3 S0		6208 Z C3 S0		Method of cooling				TEFC	
Bearing_Type				Ball Bearing		Ball Bearing		Direction of rotation				Bidirectional	
AFBMA:				40BC02JP30		40BC02JP30		Fan Material				Polypropylen ESD	
Grease								VFD				CT: 20:1 VT: 20:1	
Capacity				0.3 oz		0.3 oz		Space heaters				without	
Grease Type:				Exxon Mobile EM				Brake:				without	

Terminal box

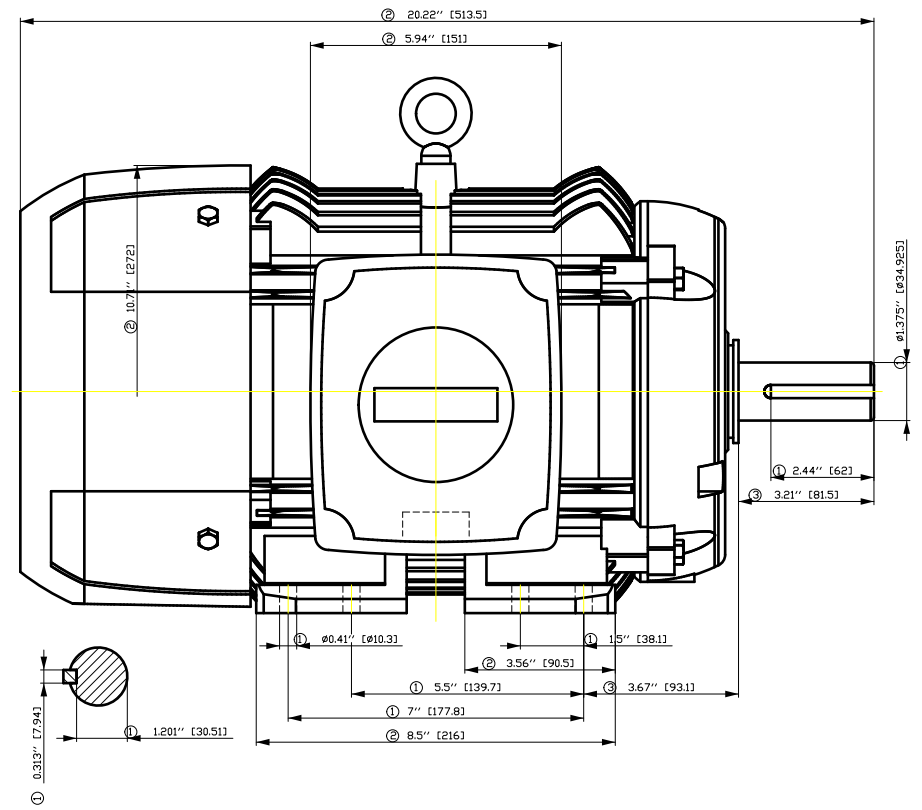
Lead Wire Connection 3 LEAD - WYE					Terminal box position (3) F-1, Standard Floor Mount, T. Box LHS	
Voltage	L1	L1	L1	Connected together	Material of terminal box Cast Iron	
----	----	----	----	----	Cable entry 1" NPT	
----	T1	T2	T3	----		

Notes: I_L/I_N = locked rotor current / current nominal 3) Value is valid only for DOL operation with motor design IC411
M_L/M_N = locked rotor torque / torque nominal 2) at rated power / at full load
M_b/M_N = break down torque / nominal torque

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by		Technical data are subject to change! There may be discrepancies between published and actual data values			
	document type datasheet		document status released		customer			
	title 1LE2421-2AB21-2AA3		document number					
			© Siemens AG 2022		rev. 01	creation date 2022-03-11 21:11	language en	Page 1/1



- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.

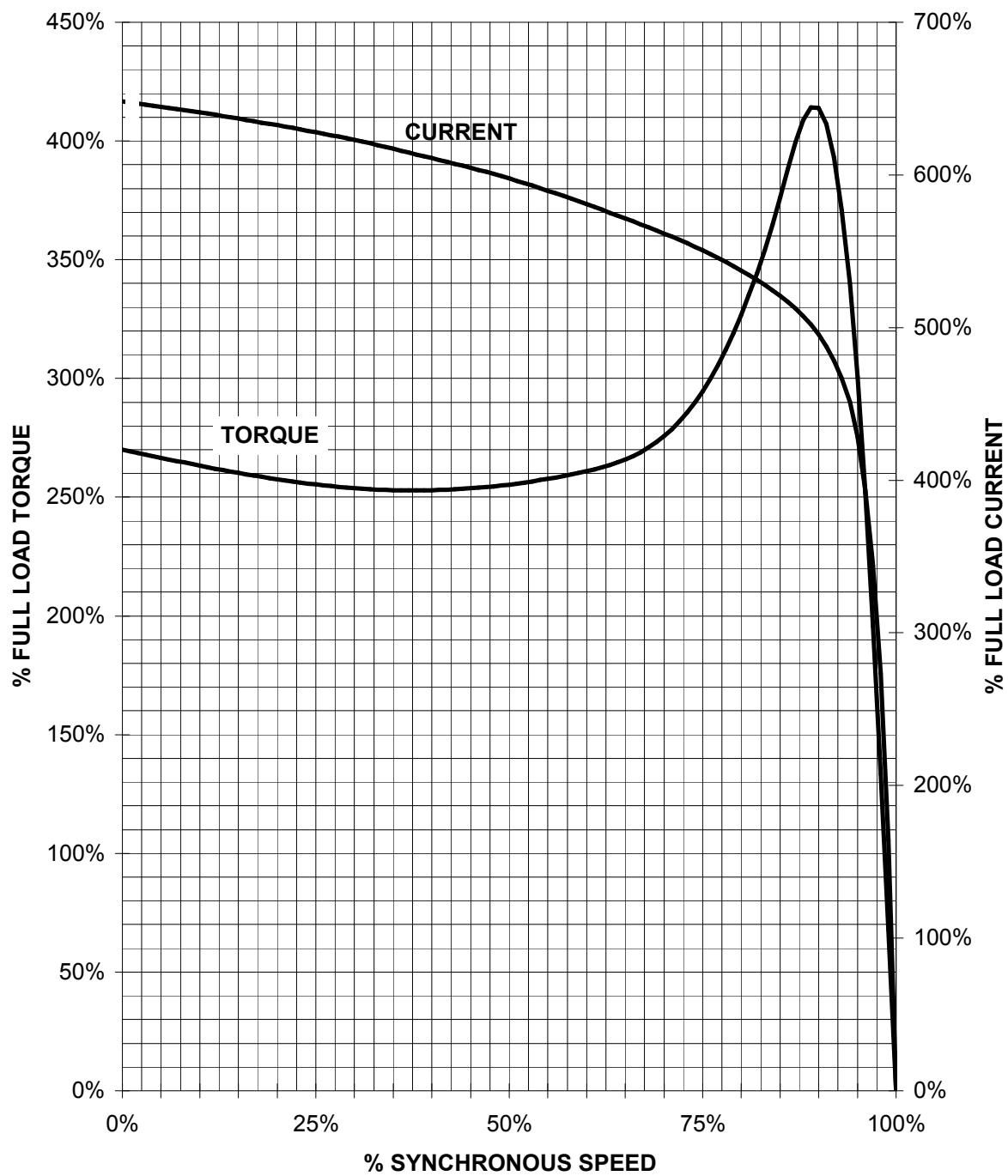


Tolerance	Surface	Material	Weight	Scale
1LE2421-2AB21-2AA3	Author	Dimensional drawing Maßzeichnung	-	mm
-	Creator			
	Approval			
	Department			
	Change Order	MLFB		Doc Type
	Doc. State	3/11/22	Item No	Paper Size A3
	Revision	Index RS	Doc No	1st Language en
				2nd Language de
© Siemens AG 2018	Project No -	Ref No -		Sheet 1 of 1

SIEMENS INDUSTRY, INC.

HP 10 VOLTS < 600V RPM 1800 TYPE SD100 IEEE841
HZ 60 PHASE 3 FRAME 215T NEMA B

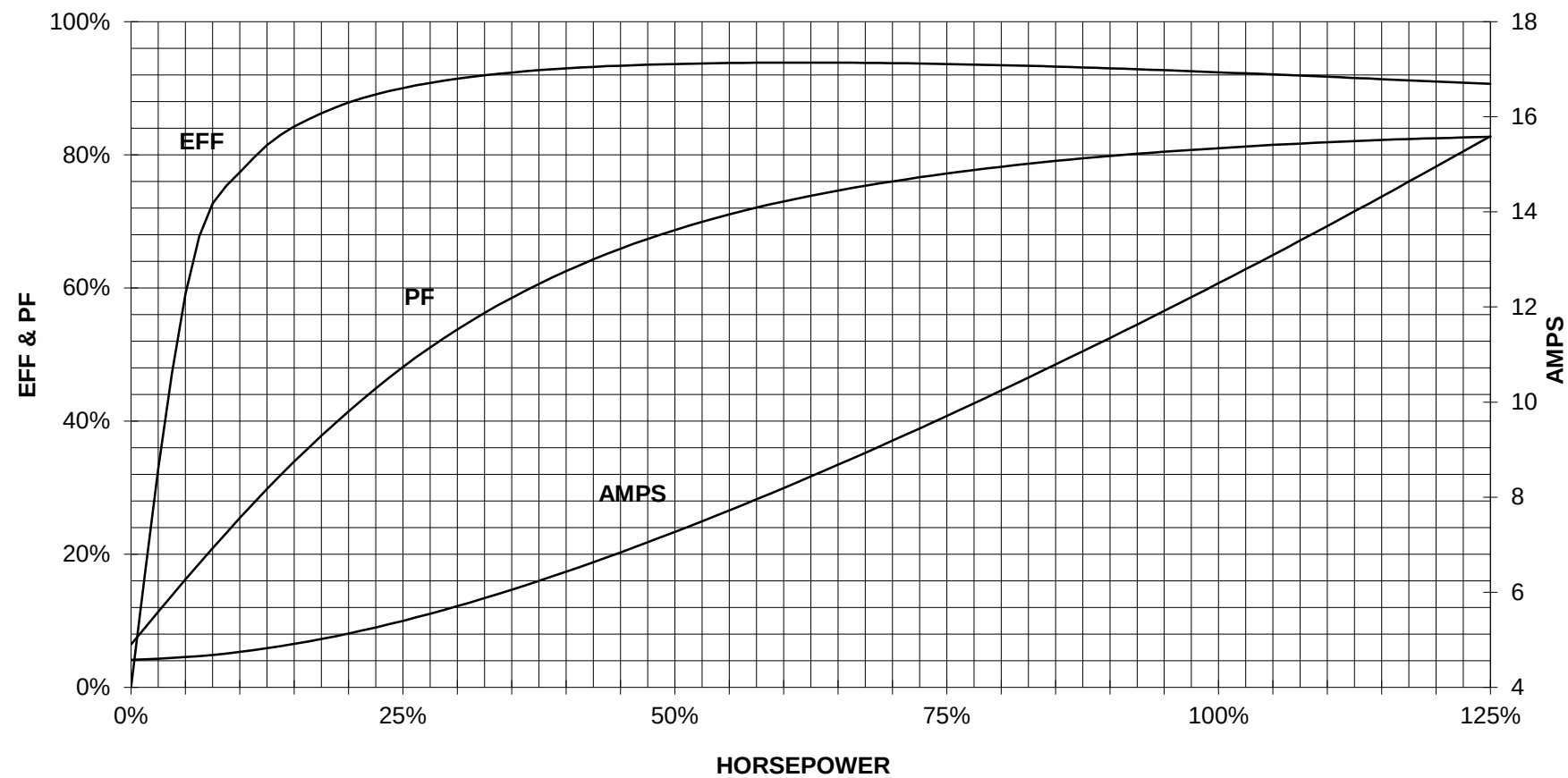
TORQUE & CURRENT VS. SPEED



CUSTOMER: ORDER#:

10 HP 1800 RPM 215T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

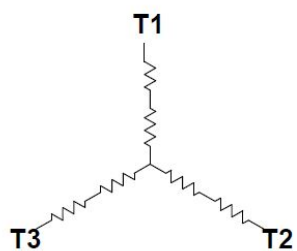
SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100 IEEE841



CUSTOMER _____ ORDER # _____ PO # _____

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

Main terminal diagram



3 LEAD WYE			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Y

responsible dep.
DI MC LVM

technical reference

created by

approved by

Project

SIEMENS

document type
Wiring Diagram

title
1LE2421-2AB21-2AA3

document status
free

document number

customer