

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

Motor type: SD100 FS: 184T - 4p - 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 LRT [%]	T _k /T _N BDT [%]
						4/4	3/4	1/2	0	4/4		3/4	2/4	4/4	3/4	2/4				
460	Y	60	5.00	4.00	1,755	6.50	5.20	4.10	3.00	46.0	89.5	90.0	89.2	80.5	75.1	63.6	15.0	220	353	
230	YY	60	5.00	4.00	1,755	13.00	10.39	8.25	6.00	92.0	89.5	90.0	89.2	80.5	75.1	63.6	15.0	220	353	

Frame Type: 184T	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:135		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: J	I.P.: 55

Mechanical data

Sound level (SPL / SWL) at 60 Hz		57.0 dB(A) / 67.0 dB(A)						Thickener	Polyurea			
Octave Band Center Frequencies Hertz									Safe Stall Time Hot	14 s		
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	29 s			
SPL@3	42.0	46.0	54.0	49.0	43.0	32.0	dB(A)	Frame material	cast iron			
Moment of inertia					0.3 Lb-ft²					Color, paint shade	Standard Paint - RAL7030	
Ext Load Inertia Capability:					27.0 Lb ft²					Coating (paint finish)	Standard Alkyed + Epoxy (C2)	
Bearings												
Bearing DE NDE				6206 Z C3 S0		6206 Z C3 S0						
Bearing_Type				Ball Bearing		Ball Bearing						
AFBMA:				30BC02JP30		30BC02JP30						
Grease												
Capacity				0.20 oz		0.20 oz						
Grease Type:					Exxon Mobile EM						Brake:	without

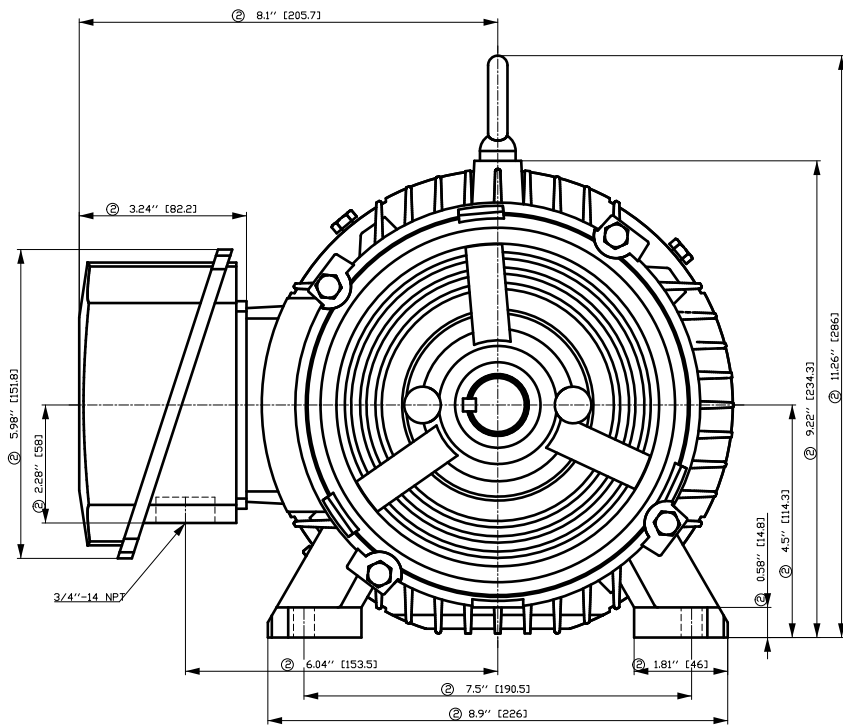
Terminal box

Lead Wire Connection					9 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
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6		Cable entry	.75" NPT
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9			

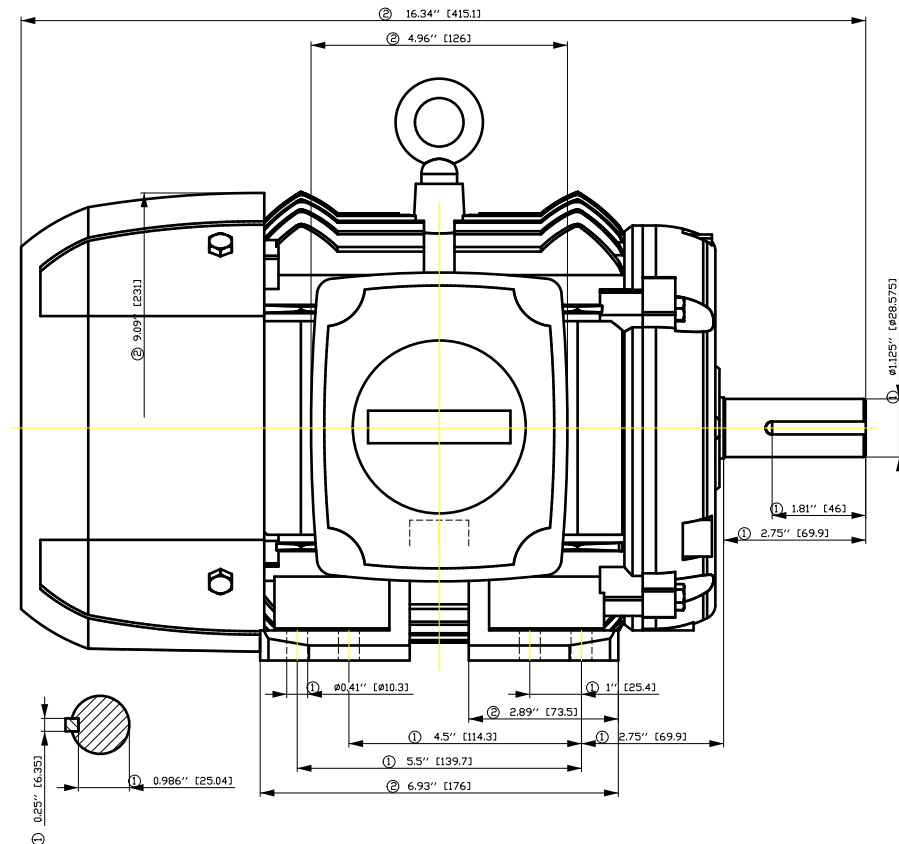
Notes:

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 calculated and actual data before			
	document type datasheet	document status released			customer			
	title 1LE2321-1CB31-4AA3	document number						
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- 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.

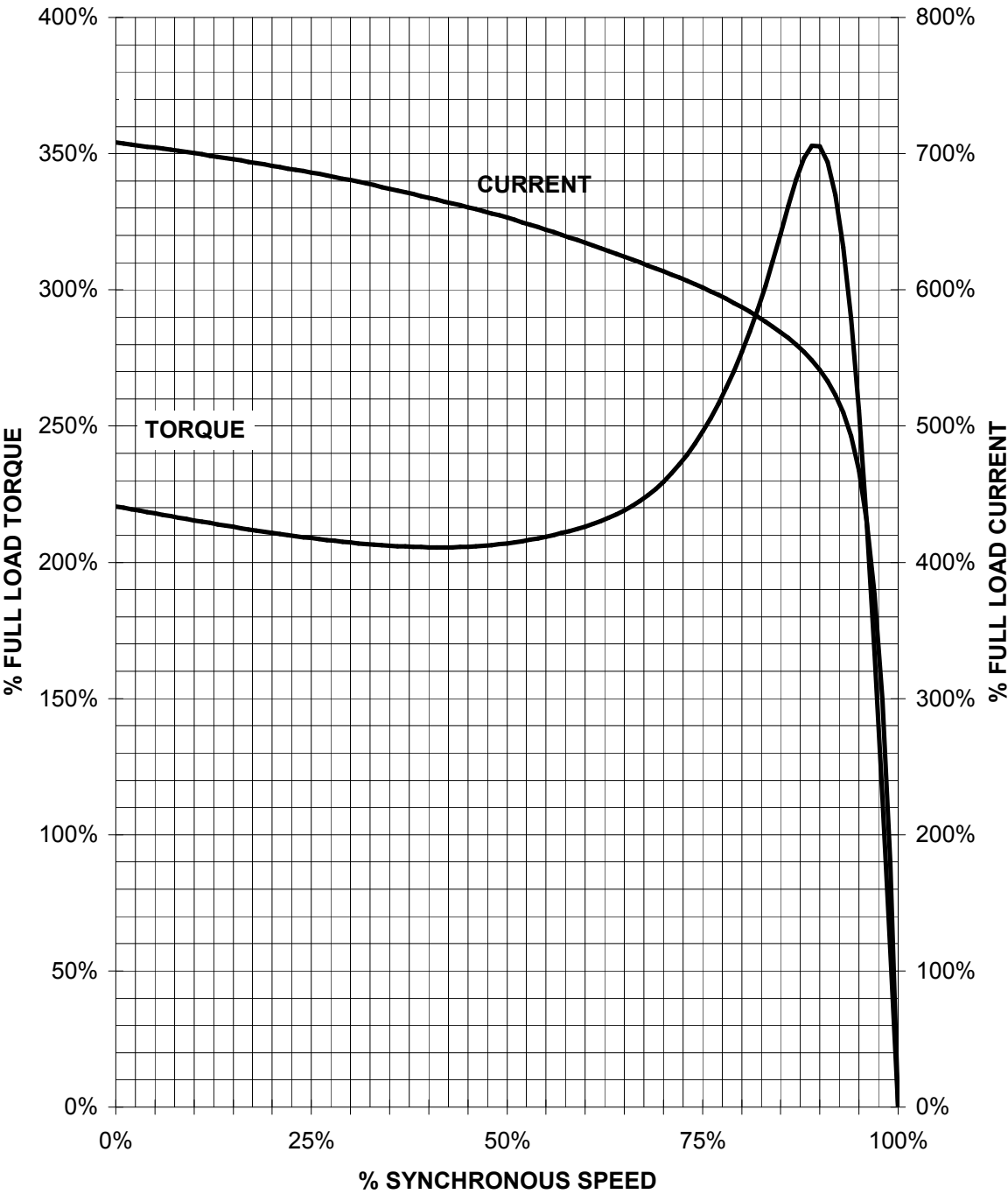


Tolerance	Surface	Material	Weight	Scale
			-	mm
1LE2321-1CB31-4AA3 -	Author	Dimensional drawing Maßzeichnung		
	Creator DTK			
	Approval			
	Department			
	Change Order	MLFB	Doc. Type	
	Doc. State 4/21/21	Item No	Paper Size	A3
	Revision Index RS	Doc. No	1st Language	en
			2nd Language	de
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HP 5 VOLTS < 600V RPM 1800 TYPE SD100
HZ 60 PHASE 3 FRAME 184T NEMA B

TORQUE & CURRENT VS. SPEED

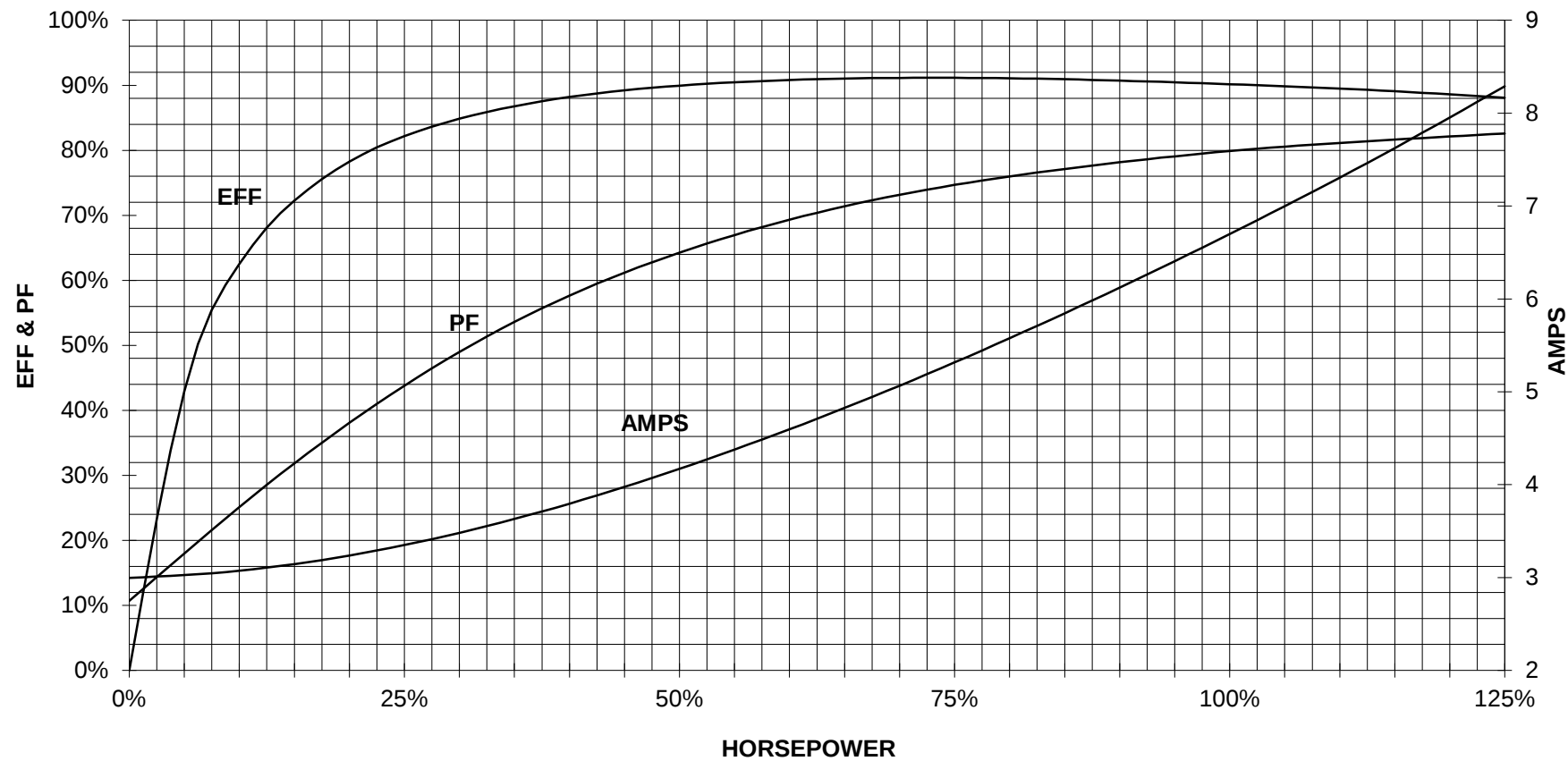


CUSTOMER: _____ ORDER#: _____

PERFORMANCE BASED ON DESIGN CALCULATIONS. SUBJECT TO CHANGE WITHOUT NOTICE.
REV. 1

5 HP 1800 RPM 184T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100

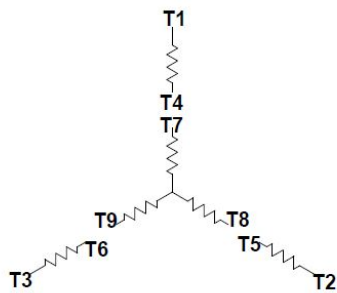


CUSTOMER _____ ORDER # _____ PO # _____

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

REV. 1

Main terminal diagram



9 LEAD WYE						
Volts	LINES			CONNECTED TOGETHER	CONN.	
	L1	L2	L3			
LOW	T1 T7	T2 T6	T3 T9	T4 T5 T6	Y Y	
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y	

responsible dep. DI MC LVM		technical reference	created by	approved by	Project			
		document type Wiring Diagram			document status free		customer	
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