

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

Motor type: **SD661** FS: **324T - 4p - 40 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]	$\Delta / Y$	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque [lb-ft]	T <sub>A</sub> /T <sub>N</sub> LRT [%]	T <sub>k</sub> /T <sub>N</sub> BDT [%]
						4/4	3/4	1/2	0	4/4		3/4	2/4	4/4	3/4	2/4				
460	$\Delta$	60	40.00	30.00	1,800	46.00	36.00	26.50	15.00	290.0	94.1	94.1	94.3	86.0	83.0	75.0	118.0	180	231	
Frame Type: 324T		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: 641						Temp. Rise Cl.: B		Amb. Temp.: + 40 to -20 °C @1000 m			kVA: G		IP 56							

## Mechanical data

Sound level (SPL / SWL) at 60 Hz	64.0 dB(A) / 75.0 dB(A)							Thickener	Polyurea
Octave Band Center Frequencies Hertz								Safe Stall Time Hot	22 s
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	45 s
SPL@3	52.0	59.0	59.0	57.0	53.0	50.0	dB(A)	Frame material	cast iron
Moment of inertia	9.4 Lb-ft <sup>2</sup>							Color, paint shade	Standard Paint - RAL7030
Ext Load Inertia Capability:	189.0 Lb ft <sup>2</sup>							Coating (paint finish)	Standard Alkyed + Epoxy (C2)
<b>Bearings</b>								<b>Ventilation Type</b>	
Bearing DE   NDE	NU 312			6312 Z C3 S0				Method of cooling	TEFC
Bearing_Type	Roller Bearing			Ball Bearing				Direction of rotation	Bidirectional
AFBMA:	60RU03M0			60BC03JP30				Fan Material	Polypropylen ESD
<b>Grease</b>								VFD	CT: 20:1 VT: 20:1
Capacity	5.5 oz			5.5 oz				Space heaters	without
Grease Type:	Exxon Mobile EM							Brake:	without


## Terminal box

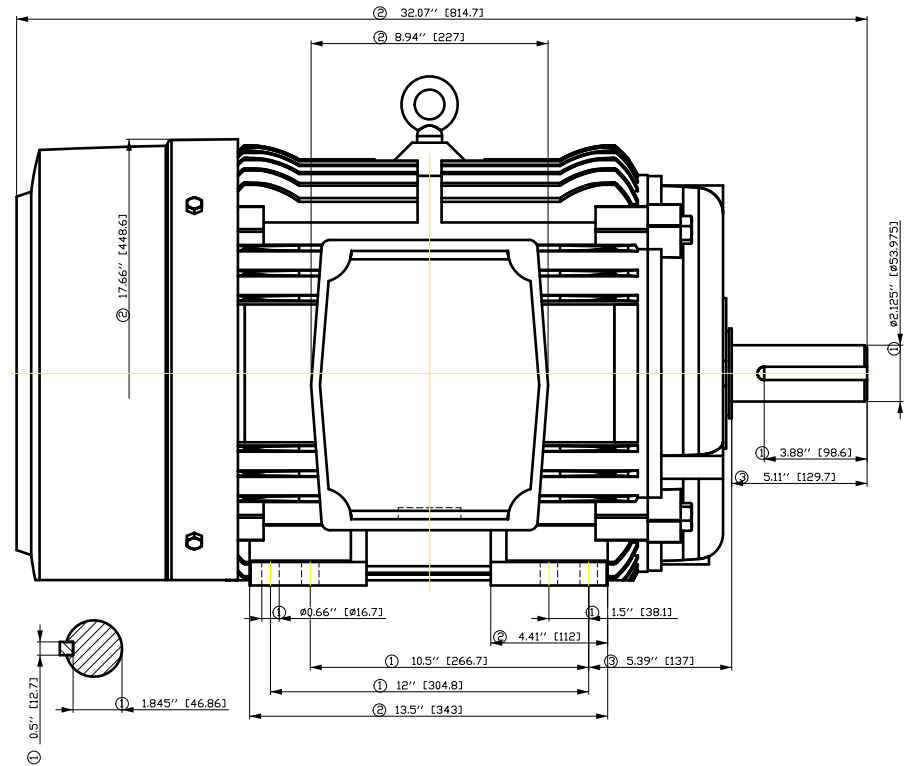
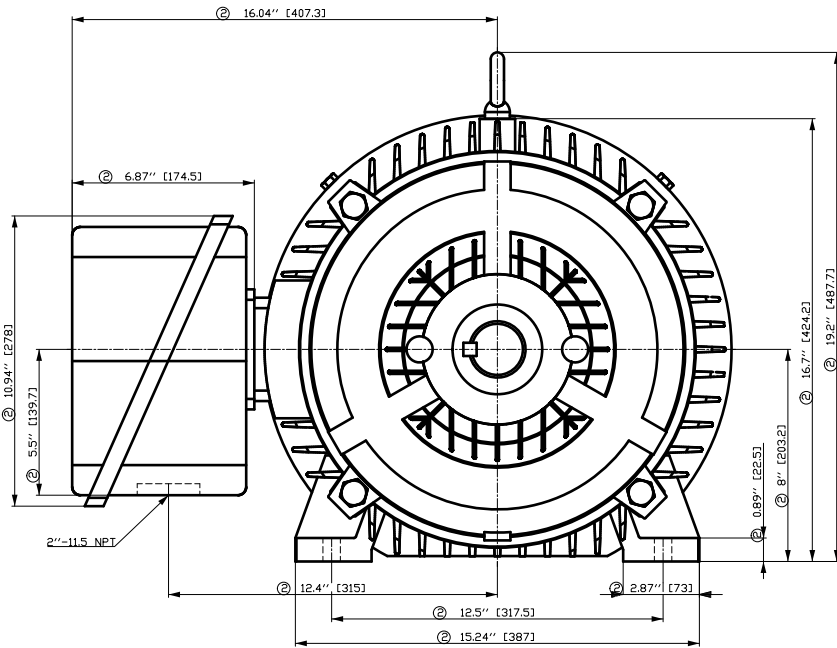
Lead Wire Connection				3 LEAD - DELTA				Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1	L1	L1	Connected together				Material of terminal box	Cast Iron
----	----	----	----	----				Cable entry	2" NPT
----	T1	T2	T3	----					

### Notes:

I<sub>L</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>L</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>B</sub>/M<sub>N</sub> = 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 dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between software and hardware versions</i>			
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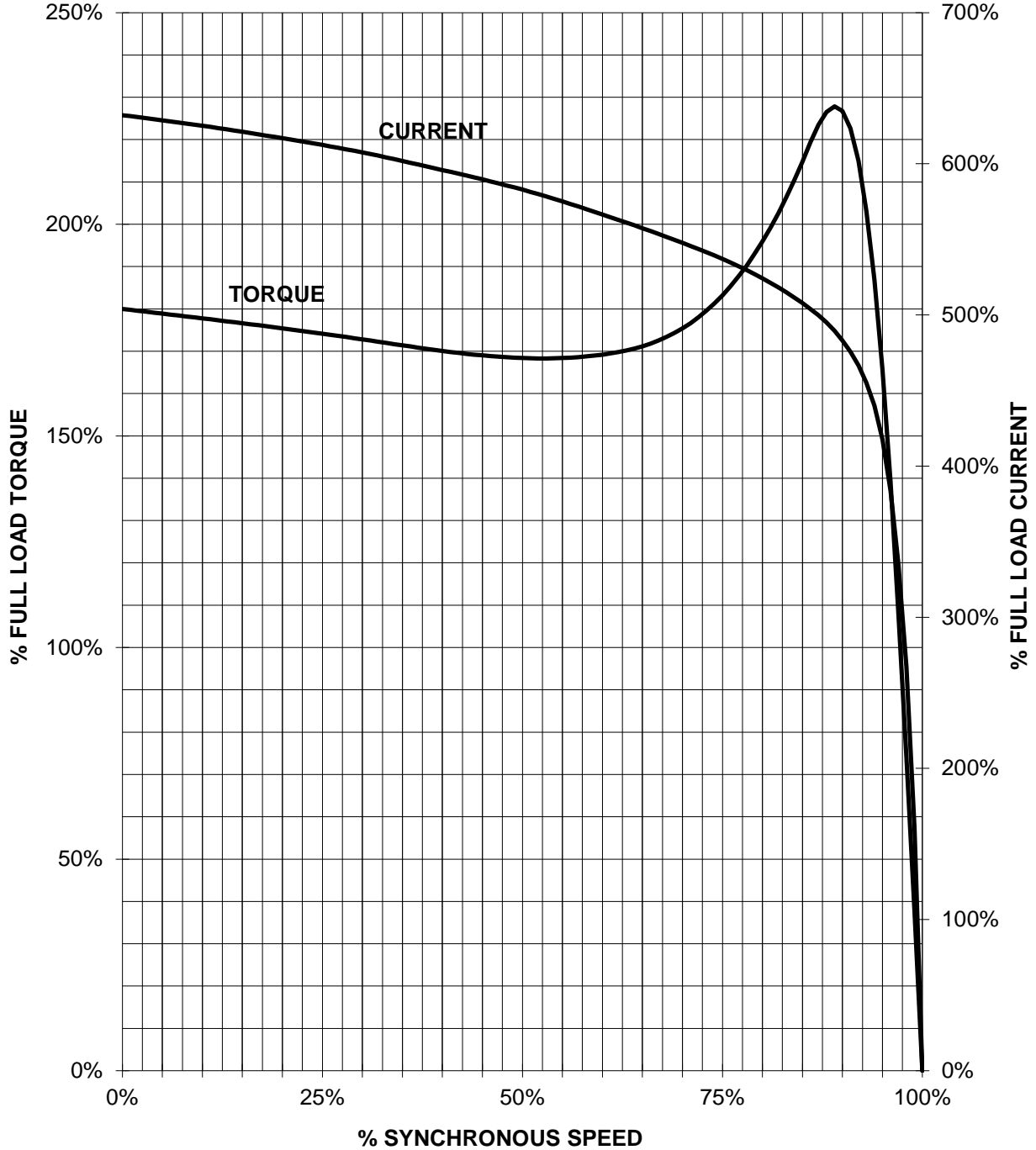
- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.

Tolerance	Surface	Material	Weight	Scale
F50G G&H OFF 000H	Author	ÖS	1	1:1
É	Creator	ÖS	1	1:1
	Approval	T a : ^ @ ~ } *		
	Department			
	Change Order	MLFB		
	Doc. State	I 000G		
	Revision	Index RS		
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	Item No			
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	2nd Language	â		
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# SIEMENS INDUSTRY, INC.

HP 40    VOLTS <600    RPM 1800    TYPE SD661 IEEE841  
HZ 60    PHASE 3    FRAME 324T    NEMA B

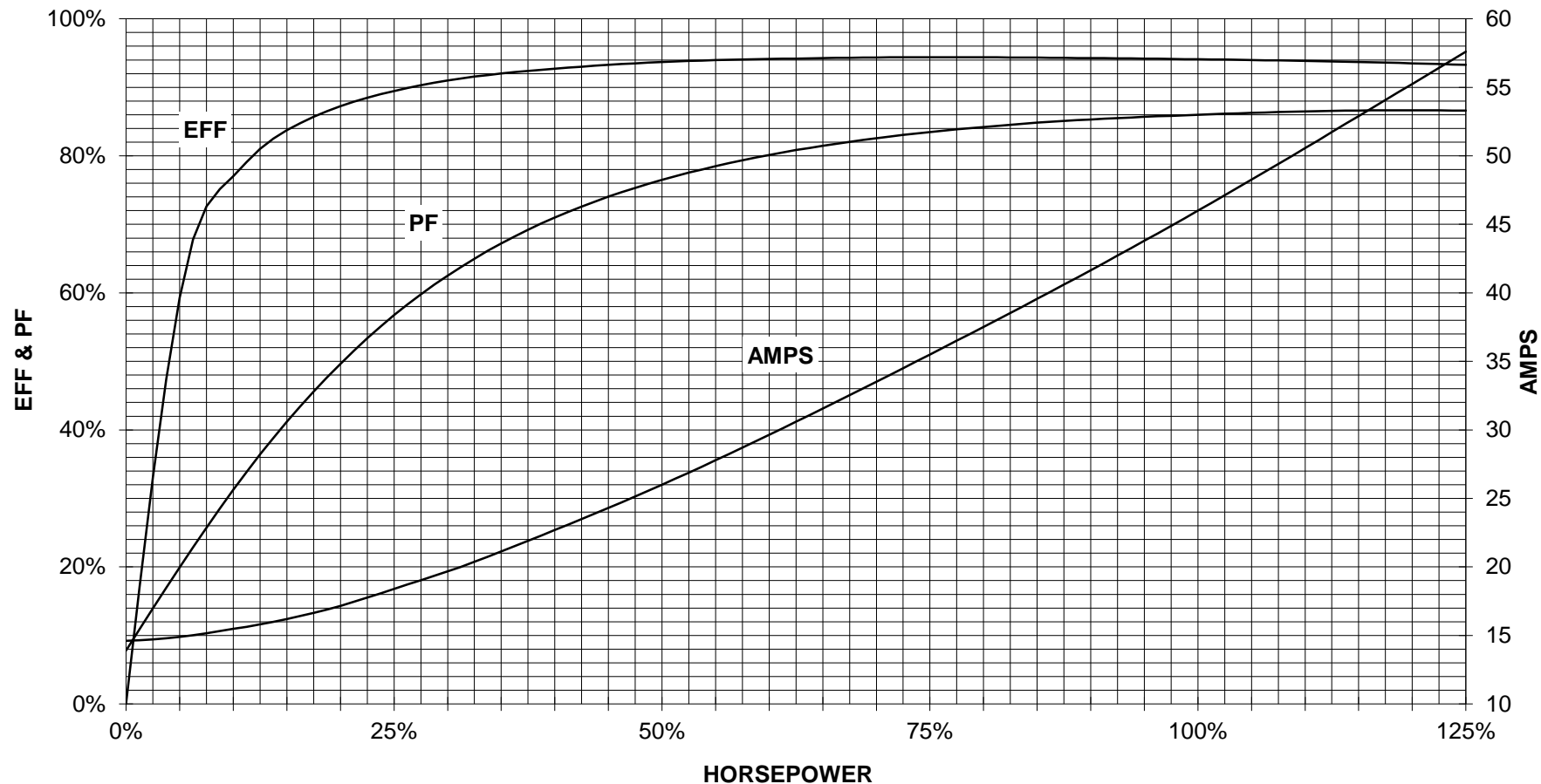
## TORQUE & CURRENT VS. SPEED



CUSTOMER: \_\_\_\_\_ ORDER#: \_\_\_\_\_

40 HP 1800 RPM 324T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

**SIEMENS INDUSTRY, INC.**  
**PERFORMANCE CURVE**  
**SD661 IEEE841**

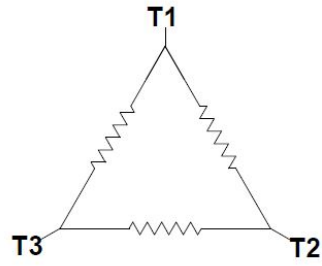


CUSTOMER: \_\_\_\_\_ ORDER #: \_\_\_\_\_

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

REV. 1

Main terminal diagram



3 LEAD DELTA			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Δ

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DI MC LVM

technical reference

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Project

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document type  
Wiring Diagram

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