

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

Motor type: **SD661** FS: **365T - 6p - 50 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	50.00	37.00	1,200	62.00	49.00	37.20	24.00	363.0	94.1	94.3	94.0	80.0	76.0	67.0	222.0	190	220	

Frame Type: 365T	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: 898		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: G	IP 56


## Mechanical data

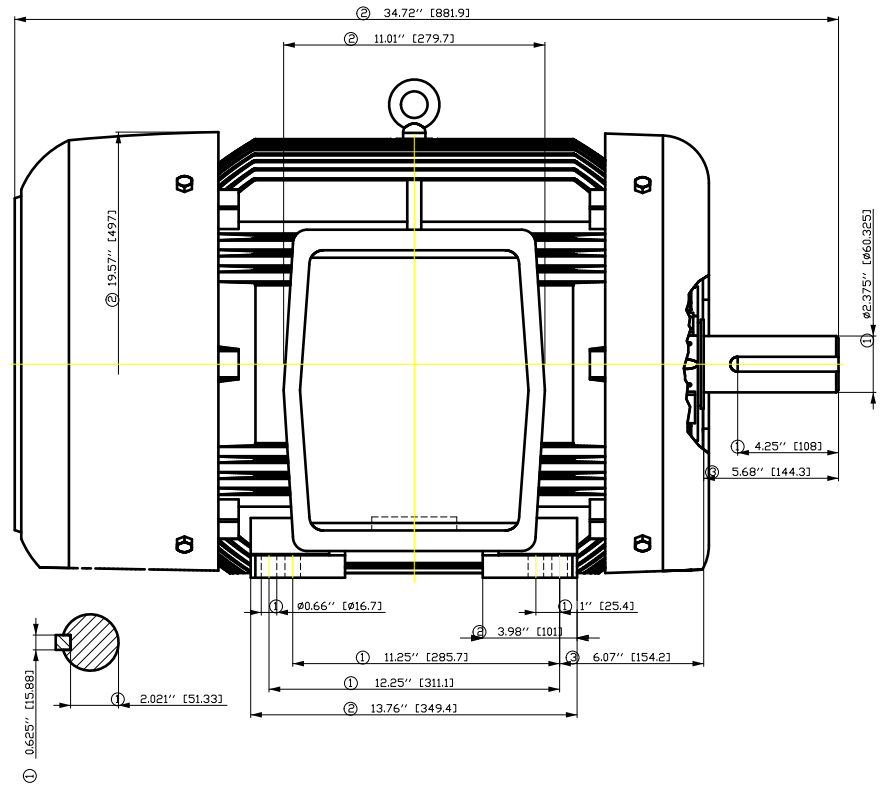
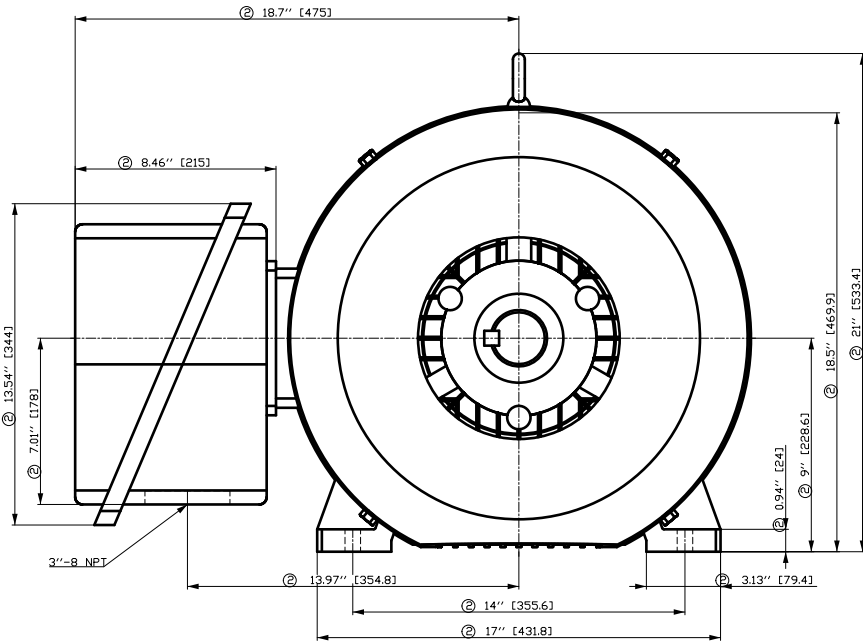
Sound level (SPL / SWL) at 60 Hz	60.0 dB(A) / 71.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz	250 500 1000 2000 4000 8000 Hz	Safe Stall Time Hot	29 s
SPL@3	48.0 53.0 54.0 53.0 52.0 50.0 dB(A)	Safe Stall Time Cold	55 s
Moment of inertia	16.2 Lb-ft <sup>2</sup>	Frame material	cast iron
Ext Load Inertia Capability:	620.0 Lb ft <sup>2</sup>	Color, paint shade	Standard Paint - RAL7030
<b>Bearings</b>		Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Bearing DE   NDE	NU 314   6314 Z C3 S0	<b>Ventilation Type</b>	
Bearing_Type	Roller Bearing   Ball Bearing	Method of cooling	TEFC
AFBMA:	70RU03M0   70BC03JP30	Direction of rotation	Bidirectional
<b>Grease</b>		Fan Material	Polypropylen ESD
Capacity	7.5 oz   7.5 oz	VFD	CT: 4:1 VT: 20:1
Grease Type:	Exxon Mobile EM	Space heaters	without
		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	3" 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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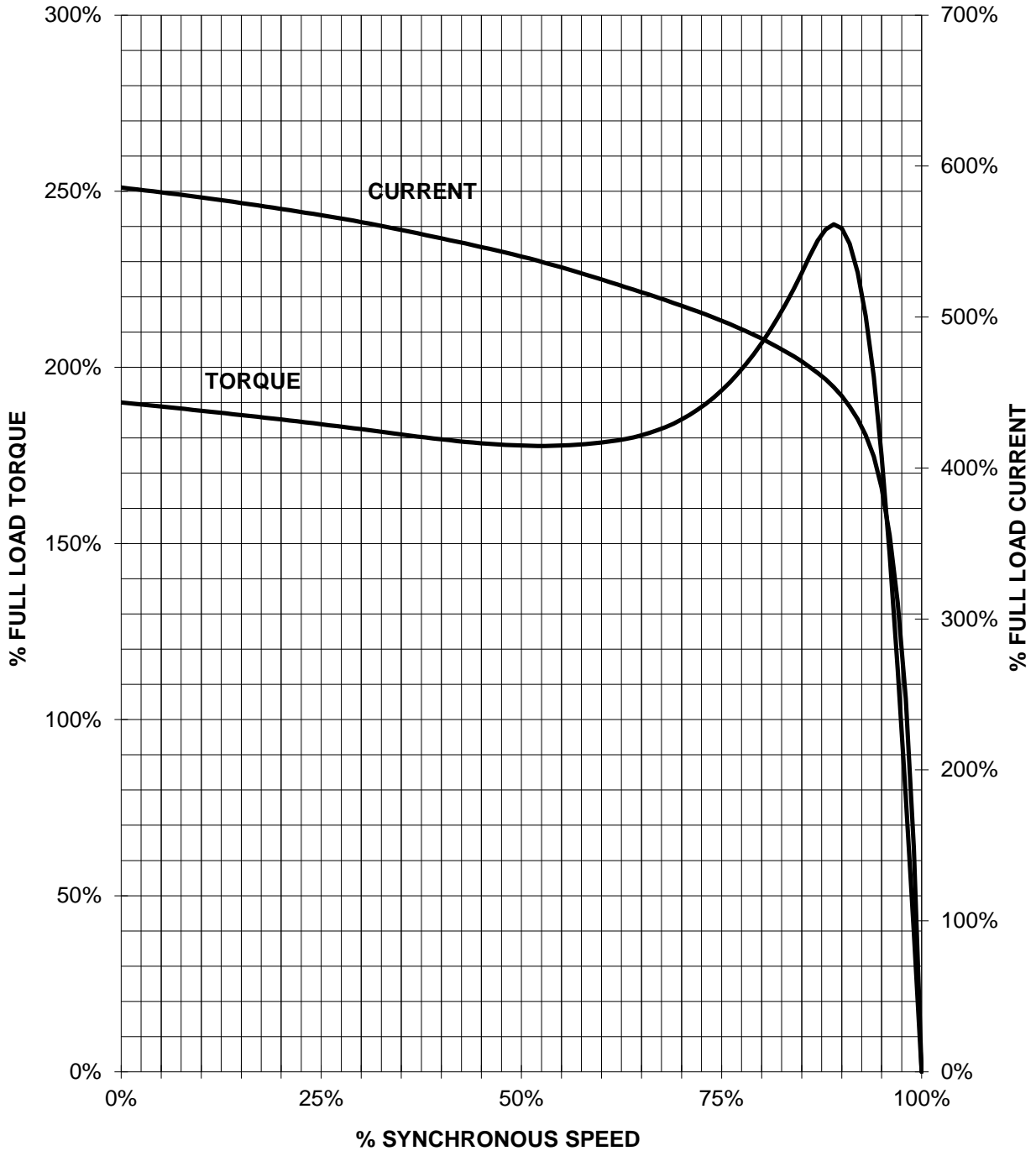
- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.

Tolerance	Surface	Material	Weight	Scale
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© Siemens AG 2018	Project No E	Ref No E		
			Doc Type	Paper Size 1st Language 2nd Language
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# SIEMENS INDUSTRY, INC.

HP 50    VOLTS <600    RPM 1200    TYPE SD661 IEEE841  
HZ 60    PHASE 3    FRAME 365T    NEMA B

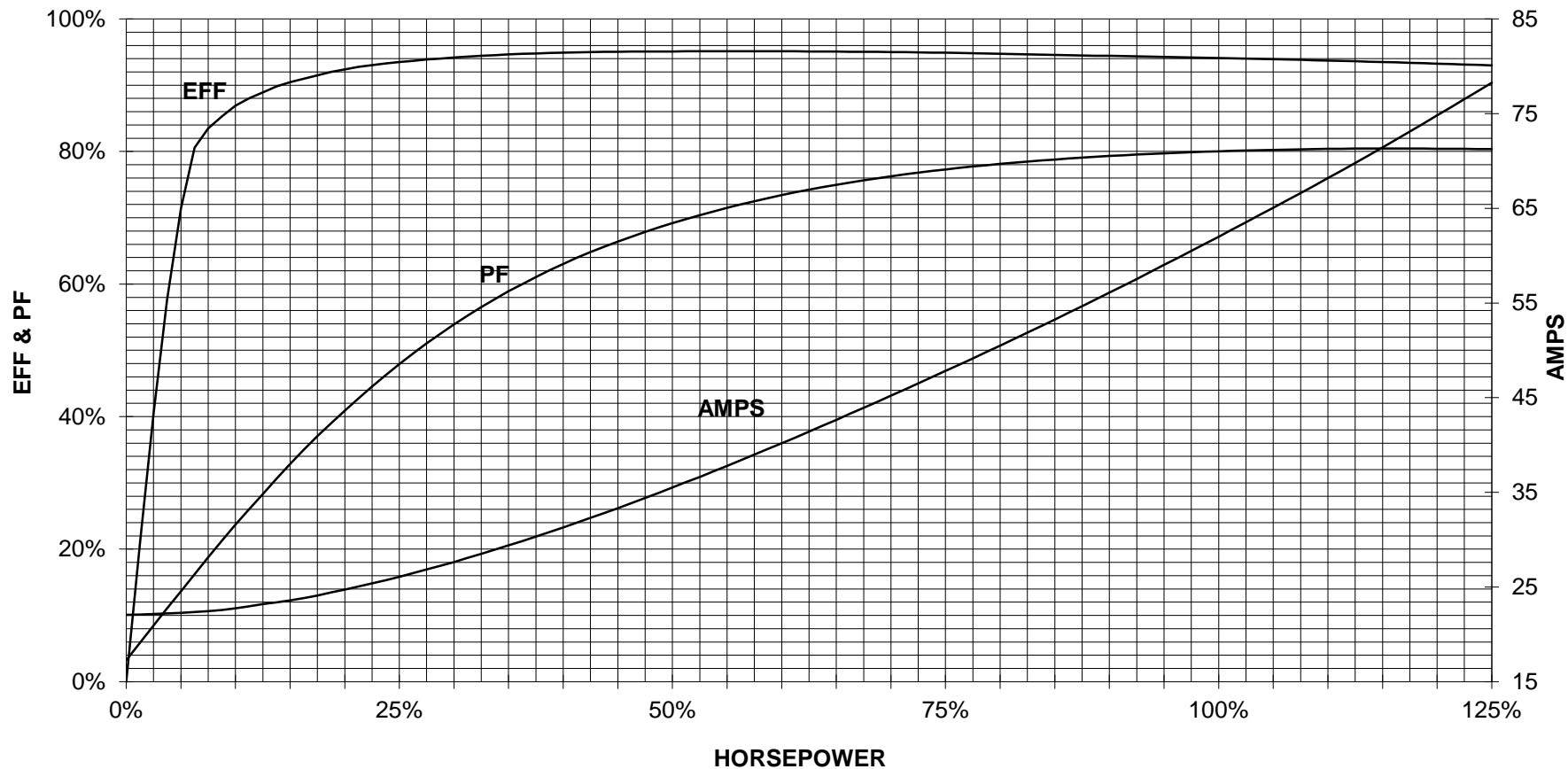
## TORQUE & CURRENT VS. SPEED



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

50 HP 1200 RPM 365T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

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



CUSTOMER \_\_\_\_\_ ORDER # \_\_\_\_\_ PO # \_\_\_\_\_

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

responsible dep. DI MC LVM	technical reference	created by	approved by	Project
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