

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

Motor type: **SD100 IEEE** FS: **364TS - 4p - 60 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	60.00	45.00	1,800	68.00	52.00	38.30	21.00	435.0	95.0	95.4	95.2	87.0	85.0	77.0	177.0	180	240	
Frame Type: 364TS		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: 936						Temp. Rise Cl.: B		Amb. Temp.: + 40 to -20 °C @1000 m			kVA: G		IP 55							

## 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	26 s
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	38 s
SPL@3	52.0	56.0	58.0	58.0	57.0	52.0	dB(A)	Frame material	cast iron
Moment of inertia	16.9 Lb-ft <sup>2</sup>							Color, paint shade	Standard Paint - RAL7030
Ext Load Inertia Capability:	275.0 Lb ft <sup>2</sup>							Coating (paint finish)	Standard Alkyed + Epoxy (C2)
<b>Bearings</b>								<b>Ventilation Type</b>	
Bearing DE   NDE	6314 Z C3 S0			6314 Z C3 S0			Method of cooling	TEFC	
Bearing_Type	Ball Bearing			Ball Bearing			Direction of rotation	Bidirectional	
AFBMA:	70BC03JP30			70BC03JP30			Fan Material	Polypropylen ESD	
<b>Grease</b>								VFD	CT: 20:1 VT: 20:1
Capacity	7.5 oz			7.5 oz			Space heaters	without	
Grease Type:	Exxon Mobile EM							Brake:	without


## Terminal box

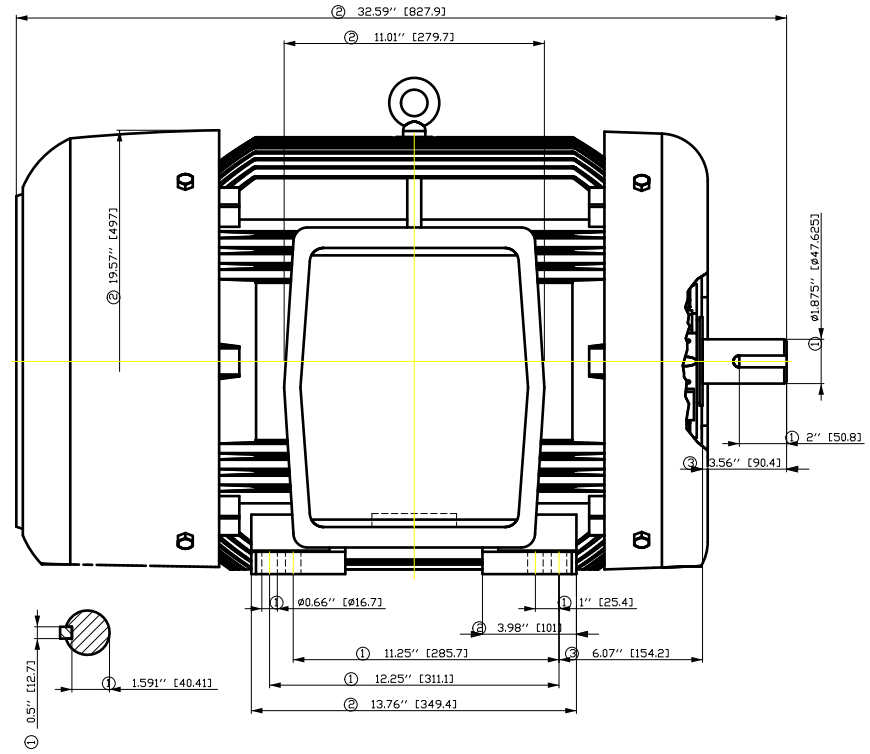
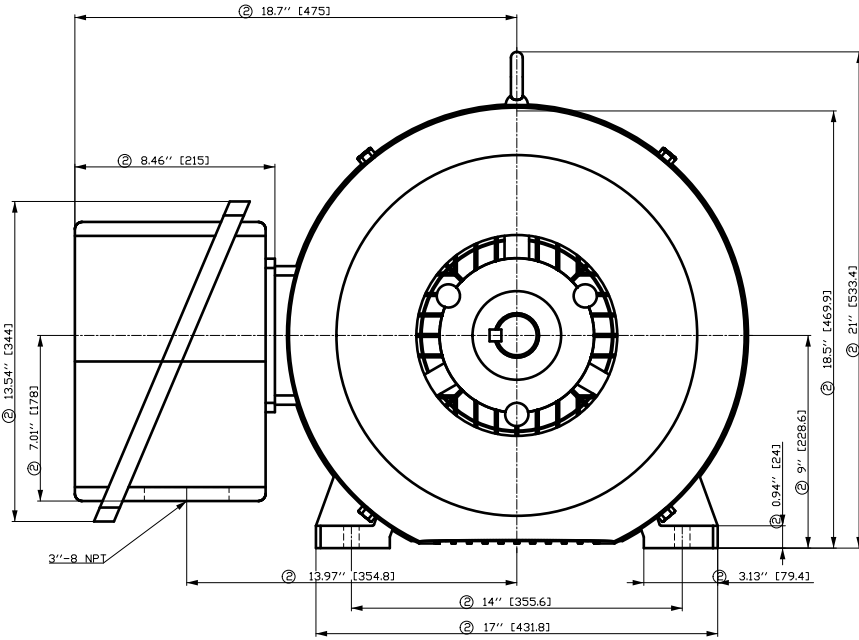
Lead Wire Connection				3 LEAD - DELTA		Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS		
Voltage	L1	L1	L1	Connected together		Material of terminal box	Cast Iron		
----	----	----	----	----		Cable entry	3" NPT		
----	T1	T2	T3	----					

### 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>			
	document type datasheet	document status released		customer			
	title 1LE2421-3DB11-2AA3	document number					
© Siemens AG 2022	rev. 01	creation date 2022-04-08 22:14	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
F50G GF-ÖOFFE300H E	Author Creator Approval Department Change Order	ÖS \ } • 4 } 4/1: 4 3 } *	E	{ {
	Doc. State	Item No	Doc. Type	
	Revision	Index	Paper Size	
		RS	1st Language	
			2nd Language	
	Project No	Ref No	Sheet	
© Siemens AG 2018	E	E	F of F	

刀痕需  
用转笔  
所转  
为干  
全  
面  
且  
均  
匀  
整  
齐  
皮  
纹

凡在图样上标注了公差要求的尺寸时, 应遵守图样上所标注的公差要求, 不得任意更改。图样中未标注公差要求的尺寸, 应遵守 GB/T 1804-M 的规定。

所有尺寸均以 mm 为单位, 除特殊说明外, 图中不再标注单位。图中给出的尺寸是制造和检验的依据, 应以图样为准, 不得擅自更改。

所有尺寸均以 mm 为单位, 除特殊说明外, 图中不再标注单位。图中给出的尺寸是制造和检验的依据, 应以图样为准, 不得擅自更改。

A  
B  
C  
D  
E  
F

1 2 3 4 5 6 7 8

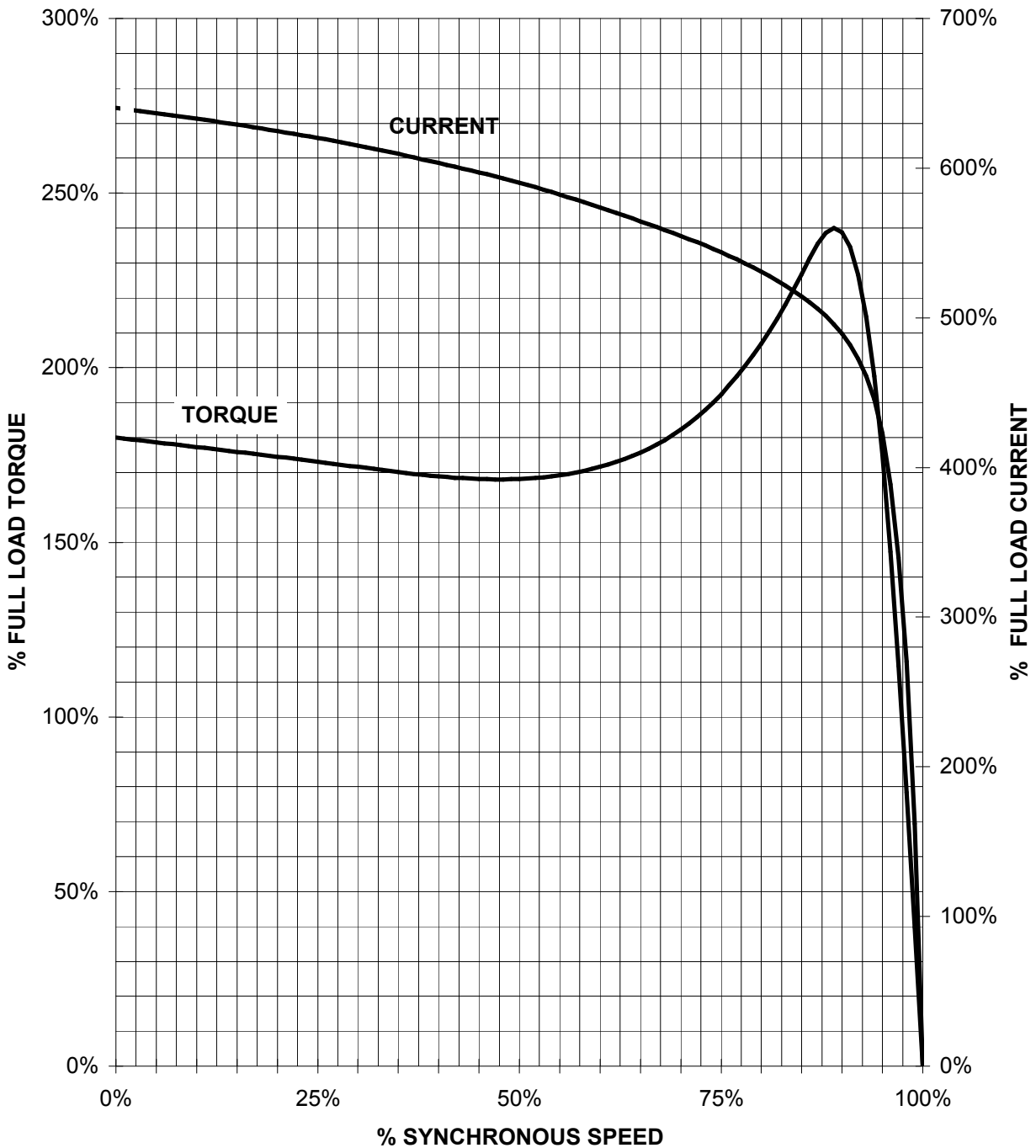
1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F

# SIEMENS INDUSTRY, INC.

HP 60 VOLTS < 600V RPM 1800 TYPE SD100 IEEE841  
HZ 60 PHASE 3 FRAME 364TS NEMA B

## TORQUE & CURRENT VS. SPEED

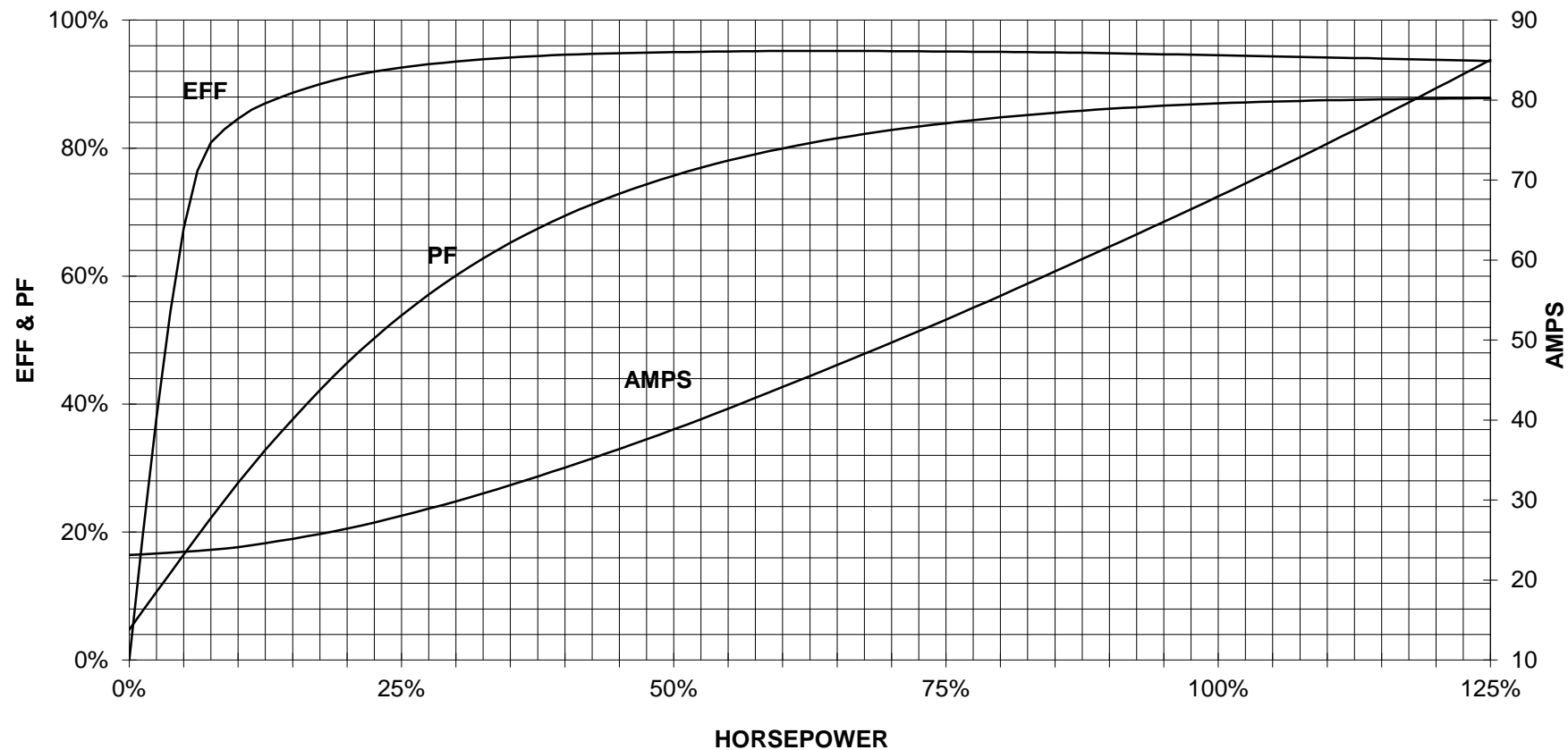


CUSTOMER: \_\_\_\_\_ ORDER#: \_\_\_\_\_

60 HP 1800 RPM 364TS FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

### SIEMENS INDUSTRY, INC.

#### PERFORMANCE CURVE SD100 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

responsible dep. DI MC LVM	technical reference	created by	approved by	Project		
	document type Wiring Diagram		document status free		customer	
	title 1LE2421-3DB11-2AA3		document number			
© Siemens AG 2019			rev. 01	creation date 12/03/2019	language en	Page 1/1