

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

Motor type: SD100 IE3E **FS: B445T - 4p - 150 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	Δ	60	150.00	110.00	1,785	170.00	130.60	94.10	52.00	1085.0	95.8	96.0	95.7	86.0	84.0	78.0	441.0	150	200	

Frame Type: B445T	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: 1,792		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: G	I.P.: 55

Mechanical data


Sound level (SPL / SWL) at 60 Hz	73.0 dB(A) / 84.0 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	30 s
SPL@3	64.0	70.0	67.0	66.0	59.0	49.0	dB(A)	Frame material	cast iron
Moment of inertia	44.9 Lb-ft ²		Color, paint shade	Standard Paint - RAL7030					
Ext Load Inertia Capability:	640.0 Lb ft ²		Coating (paint finish)	Standard Alkyed + Epoxy (C2)					
Bearings			Ventilation Type						
Bearing DE NDE	6318 Z C3 S0		6316 Z C3 S0	Method of cooling	TEFC				
Bearing_Type	Ball Bearing		Ball Bearing	Direction of rotation	Bidirectional				
AFBMA:	90BC03JP30		80BC03JP30	Fan Material	Polypropylen ESD				
Grease			VFD	CT: 4:1 VT: 20:1					
Capacity	14.50 oz		7.50 oz	Space heaters	115V, Single Phase, 100 Watts				
Grease Type:	Exxon Mobile EM		Brake:	without					

Terminal box

Lead Wire Connection	6 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_L/I_N = locked rotor current / current nominal
 M_L/M_N = locked rotor torque / torque nominal
 M_L/M_N = 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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	document type datasheet	document status released	customer	
	title 1LE2421-4EB21-2AA3-Z A40+B09	document number	rev. 01	creation date 2021-04-20 19:14
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Motor type: SD100 IEEE FS: B445T - 4p - 150 hp -

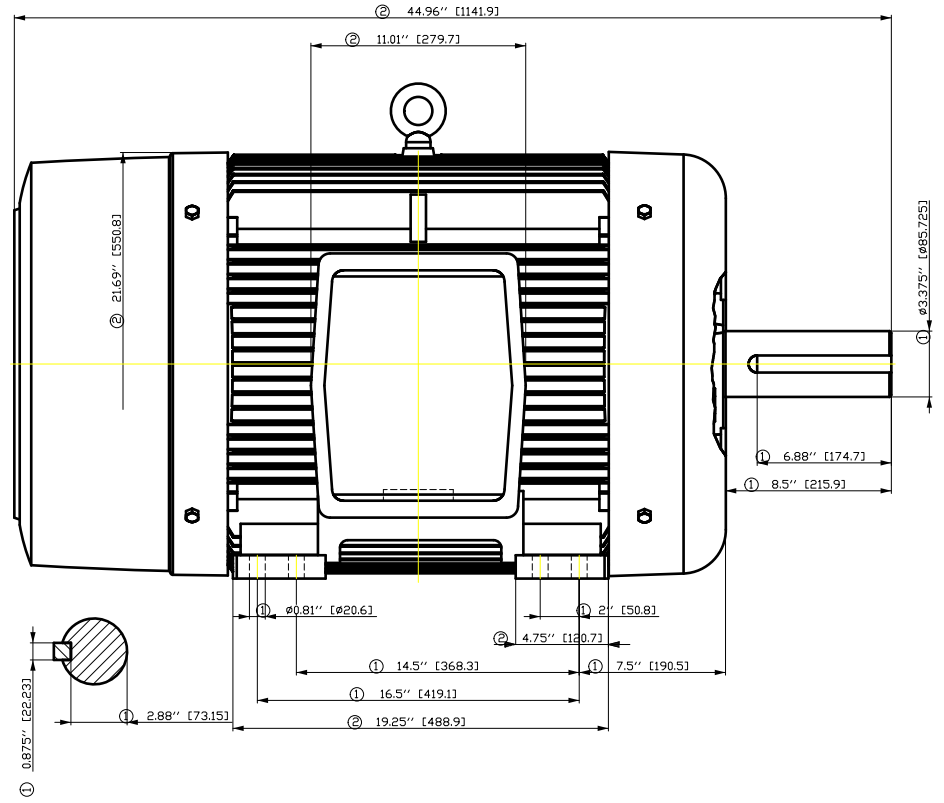
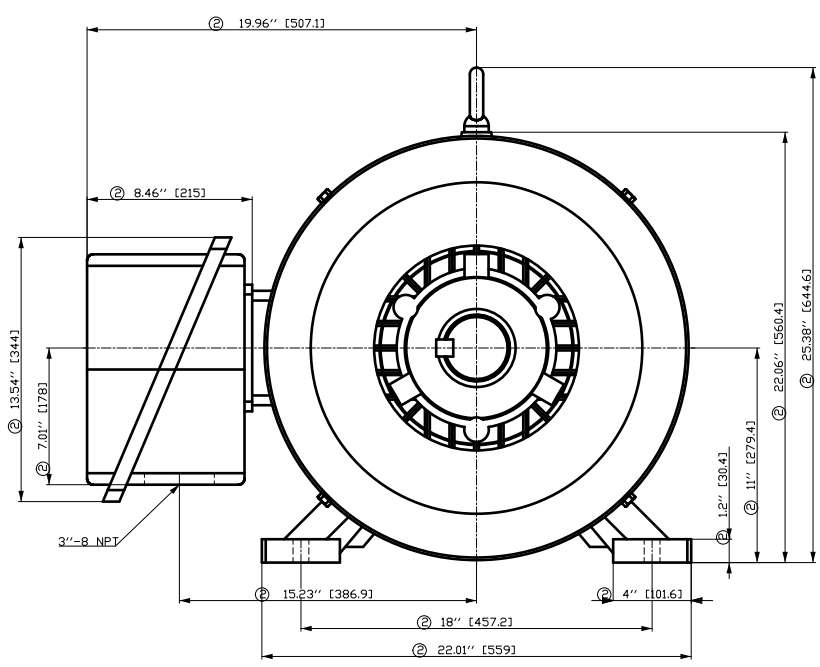
Special design

A40 Space heater - 115V, single phase B09 Export packing sea freight - Siemens standard

Notes:

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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.

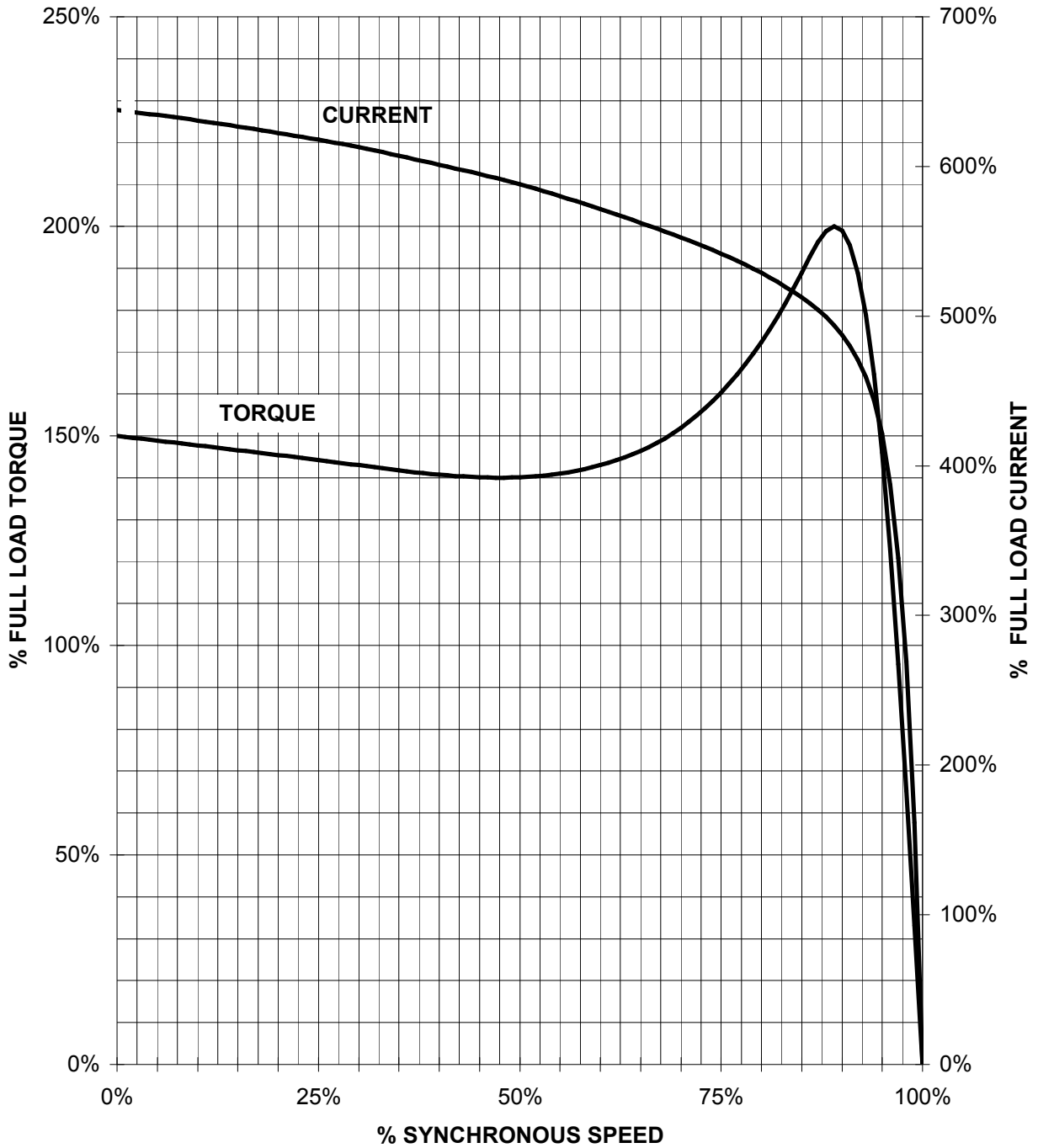
Tolerance	Surface	Material	Weight	Scale
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SIEMENS	Doc. State	Item No	Doc Type	Paper Size
	Revision	Index	Doc No	1st Language
	Project No	Ä	Ref No	2nd Language
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SIEMENS INDUSTRY, INC.

HP 150 VOLTS < 600V RPM 1800 TYPE SD100 IEEE841
HZ 60 PHASE 3 FRAME B445T NEMA B

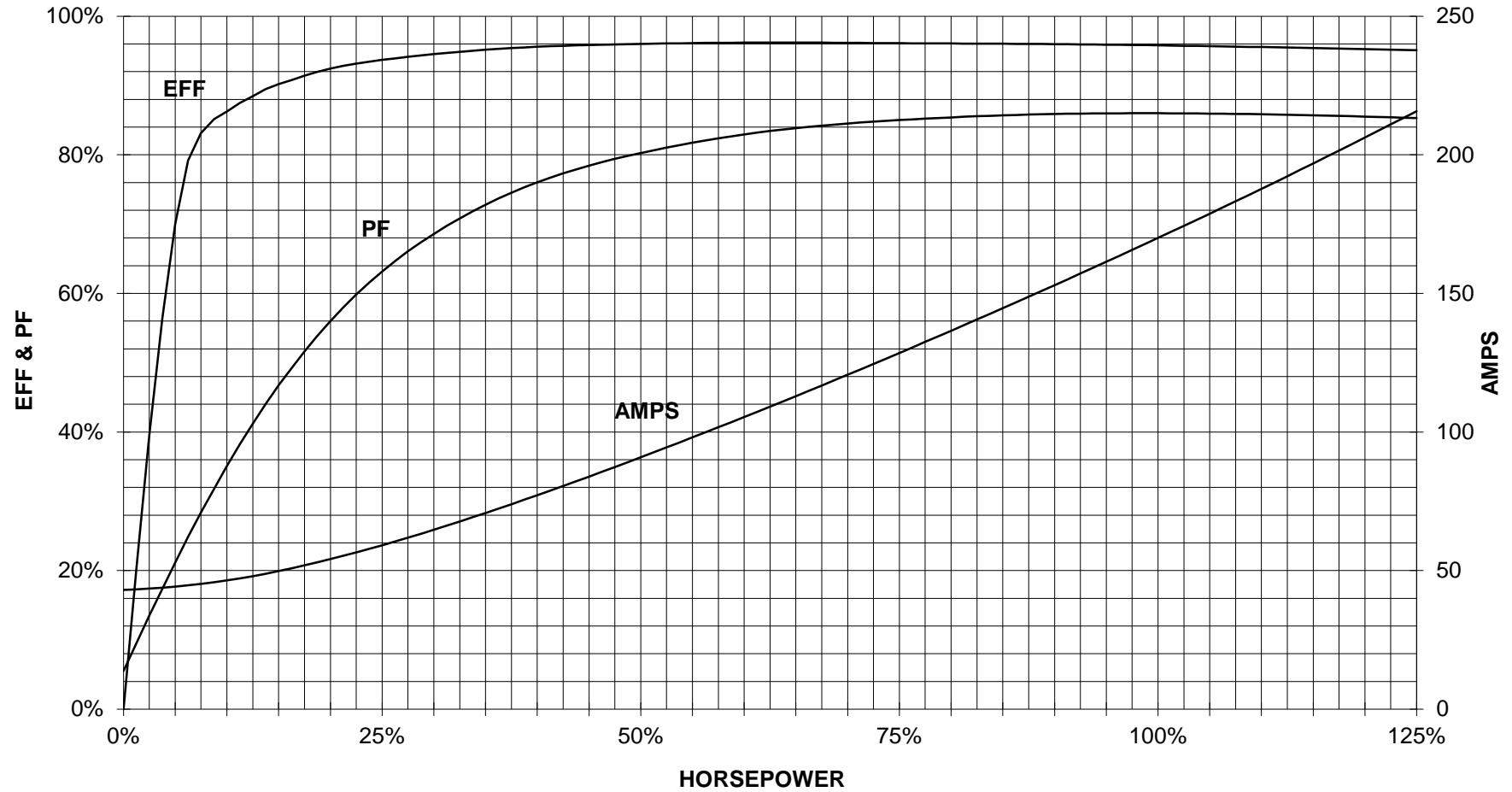
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

150 HP 1800 RPM B445T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100 IEEE841

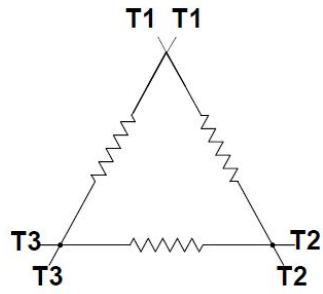


CUSTOMER: _____ ORDER #: _____

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

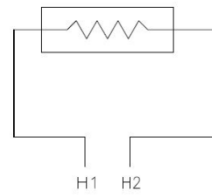
REV. 1

Main terminal diagram



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

Space heaters
SPACE HEATERS



responsible dep.
DI MC LVM

technical reference

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Wiring Diagram

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