SIEMENS

Data sheet for three-phase Squirrel-Cage-Motors

Totally Enclosed Fan Cooled (TEFC)

MLFB-Ordering data: **1LE2421-4CD51-2AA3**

Motor type: **SD100 IEEE841 - NEMA Premium Efficiency**

Client order no.:
Order no.:
Offer no.:
Remarks:

Item no.:
Consignment no.:
Project:

U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps] 4/4	3/4	1/2	0	LRC	Nom. Eff Load [%] 4/4	3/4	1/2	Pwr. Factor Load [%] 4/4	3/4	1/2	Torque [lb-ft]	T_A/T_N LRT [%]	T_k/T_N BDT [%]
460	Δ	60	150.00	110.00	885	180.00	139.30	103.40	61.00	1085.0	94.1	94.5	94.3	83.0	80.0	72.0	890.0	130	200

Frame Type 449T	Type of constr.: (A) Foot mounted - End shield	Ins. Cl.: F	Motor Prot.: (A) Without Protection	NEMA Des.: B	S.F.: 1.15
Mtr WT: 2,499 lbs	Mounting: (3) F-1, Standard Floor Mount, T. Box LHS	Temp. Rise Cl.: B	Amb. Temp.: +40 to -20 °C @1000 m	kVA: G	IP55

Mechanical data

WK2

Rotor Moment of Inertia:	0	Lb-ft²
Ext Load Inertia Capability:	3460.0	Lb-ft²

Safe Stall Time

Hot:	20.0	s
Cold:	25.0	s

Typical Noise Data

A-weighted Sound

Sound Pressure:	86.0	dB(A)
Sound Power:	74.0	dB(A)

Octave Band Center Frequencies Hertz

	250	500	1000	2000	4000	8000	Hz
SPL@3 feet	65.0	69.0	70.0	65.0	61.0	52.0	dB(A)

Bearings

	DE	NDE
Bearing size:	NU 320	6316 Z C3 S0
Bearing Type:	Roller Bearing	Ball Bearing
AFBMA:	100RU03M0	80BC03JP30

Grease

Capacity:	14.50 oz	7.50 oz
Type:	Exxon Mobile EM	
Thickener:	Polyurea	

Frame

Frame material:	cast iron
Coating (paint finish):	Standard Paint
Color, paint shade:	RAL 7030

Terminal box

Terminal box position:	(3) F-1, Standard Floor Mount, T. Box LHS

Lead Wire Connection

Description: 6 LEAD - DELTA

Voltage	L1	L2	L3	Connected together	
-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-
-- -- --	T1	T2	T3	-- -- --	Δ

Ventilation Type

Type of Cooling:	TEFC
Fan Material:	Polypropylen ESD
Fan Rotation:	Bidirectional

Additional information

VFD Operation:	CT:	4:1	VT:	20:1
Area: classification:	Class I Division 2 Gr. A, B, C or D			

Notes

I_A/I_N = locked rotor current / current nominal
T_A/T_N = locked rotor torque / torque nominal
T_k/T_N = break down torque / nominal torque
[1)] Value is valid only for DOL operation with motor design IC411

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

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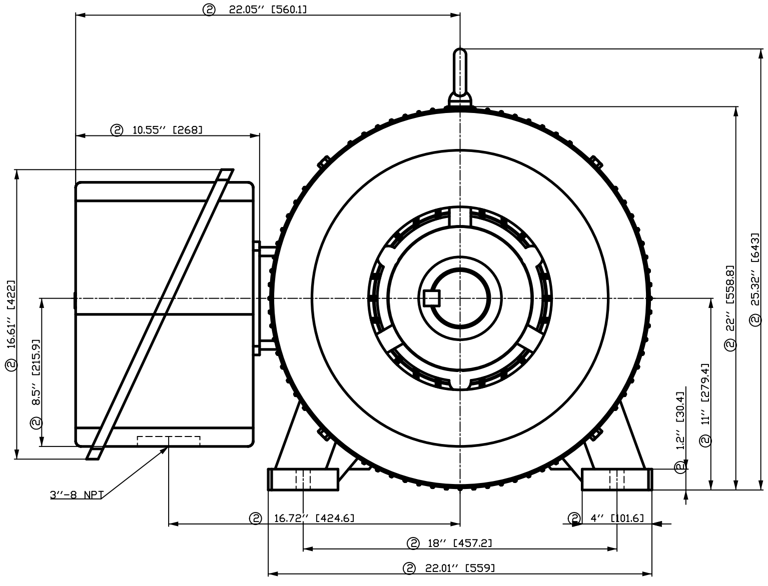
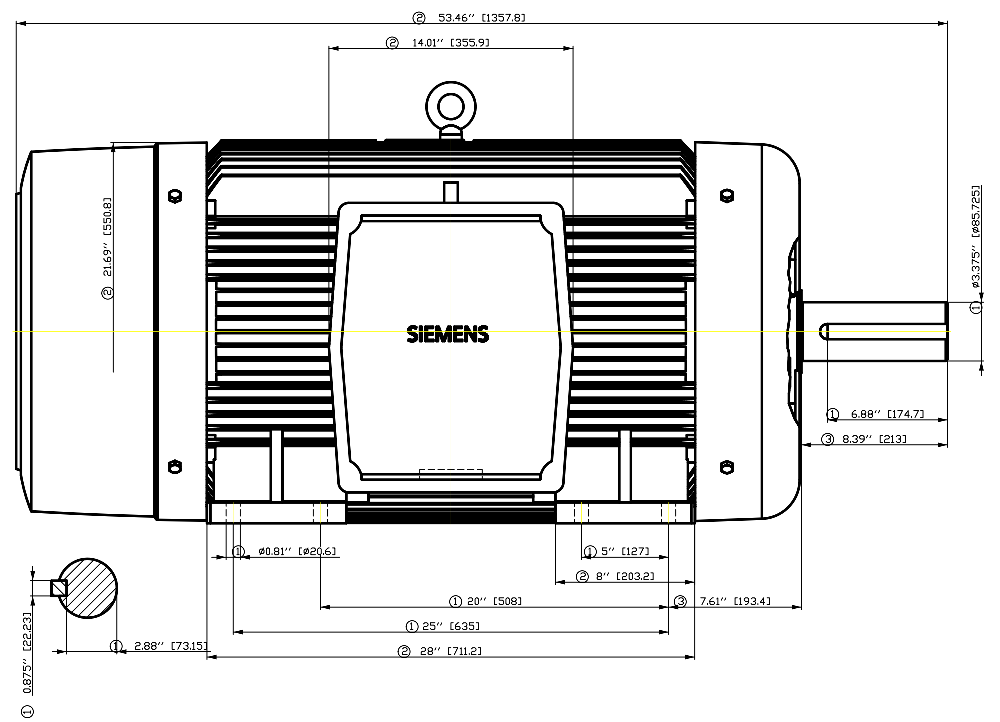
2020-10-30 14:45





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
1LE2421-4CD51-2AA3 -	Author Creator DTK Approval Department	Dimensional drawing MaÇzeichnung		
	Change Order	MLFB	Doc Type	
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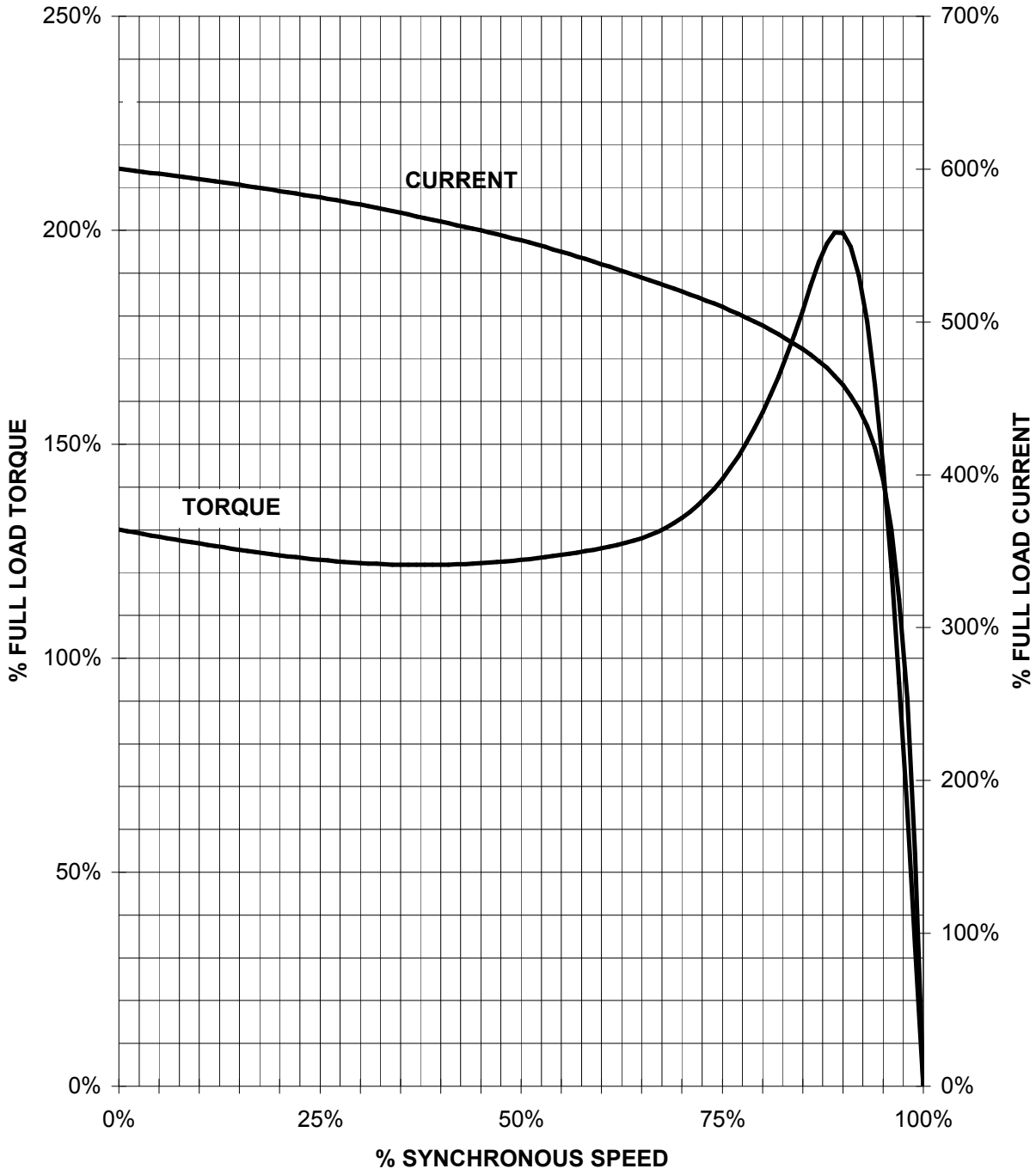
HP	150	VOLTS	< 600V	RPM	900	TYPE	SD100 IEEE841
HZ	60	PHASE	3	FRAME	449T	NEMA	B

TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

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

150 HP 900 RPM 449T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

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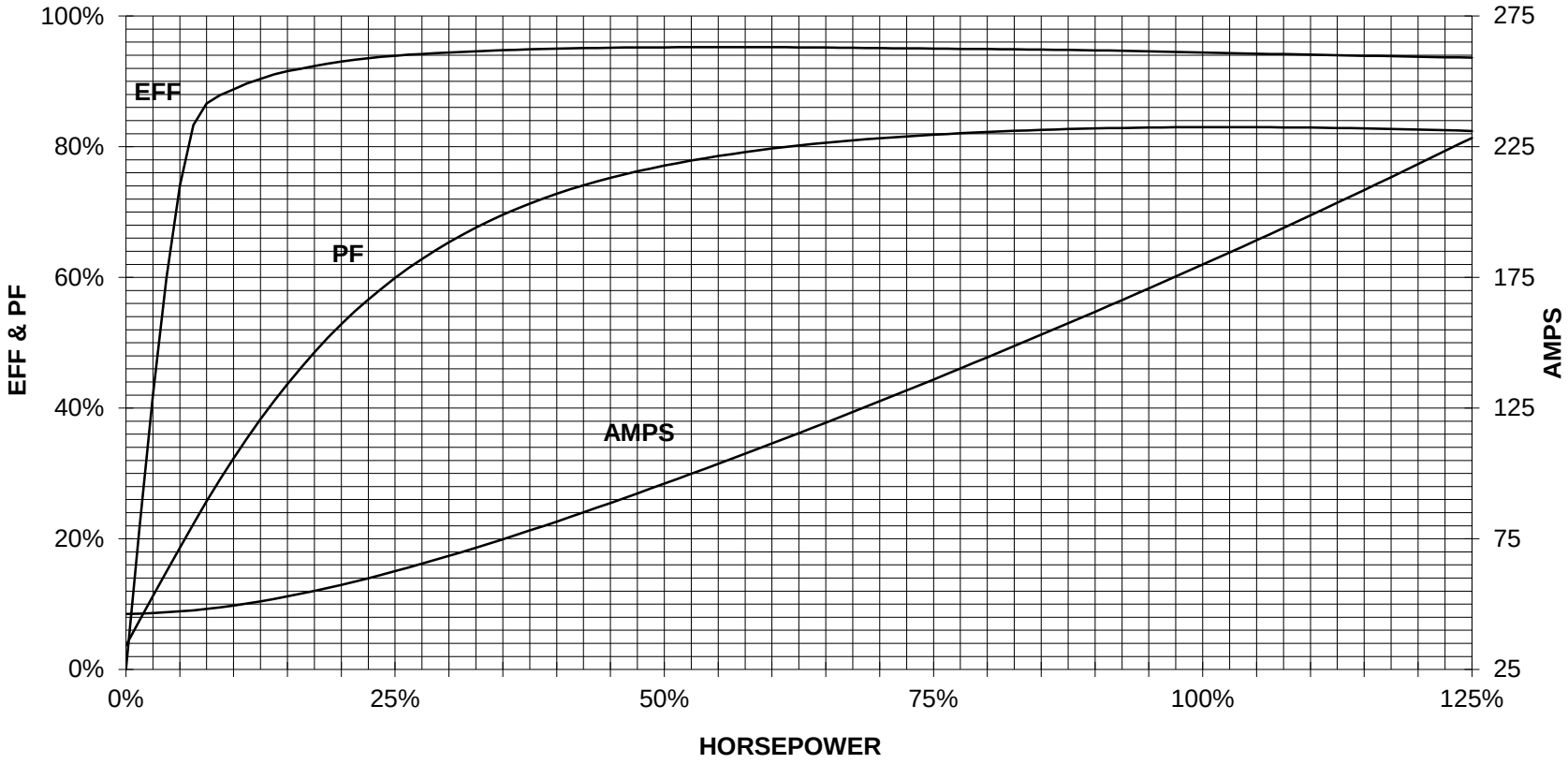
PERFORMANCE CURVE
SD100 IEEE841

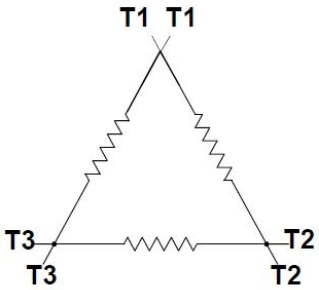


CUSTOMER_____ ORDER #_____ PO #_____

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

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