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

Motor type: **SD100** **FS: B449T - 6p - 250 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]	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	2/4	Pwr. Factor Load [%] 4/4	3/4	2/4	Torque [lb-ft]	T_A/T_N LRT [%]	T_k/T_N BDT [%]
460	Δ	60	250.00	185.00	1,200	281.00	212.60	151.00	86.00	2050.0	95.8	96.0	95.7	87.0	86.0	81.0	1104.0	120	240
400	Δ	50	200.00		989	268.50	208.70	156.00	99.00	1717.5	95.5	95.9	95.8	83.9	80.6	71.9	1062.0	137	207

Frame Type: B449T	Type of constr.: (A) Foot mounted - End shield	Ins. Cl.:Standard Class F Insulation	Motor Prot.:(A) Without Protection	NEMA Des.: A	S.F.: 1.15
Mtr. WT:2,438		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: H	IP 55

Mechanical data

Sound level (SPL / SWL) at 60 Hz	74.0 dB(A) / 86.0 dB(A)

Octave Band Center Frequencies Hertz

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

Moment of inertia	87.9 Lb-ft²
Ext Load Inertia Capability:	274.0 Lb ft²

Bearings

Bearing DE | NDE	6318 Z C3 S0	6316 Z C3 S0
Bearing_Type	Ball Bearing	Ball Bearing
AFBMA:	90BC03JP30	80BC03JP30

Grease

Capacity	14.5 oz	7.5 oz
Grease Type:	Exxon Mobile EM	

Thickener	Polyurea
Safe Stall Time Hot	20 s
Safe Stall Time Cold	25 s
Frame material	cast iron
Color, paint shade	Standard Paint - RAL7030
Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Ventilation Type	
Method of cooling	TEFC
Direction of rotation	Bidirectional
Fan Material	Polypropylen ESD
VFD	CT: 4:1 VT: 20:1
Space heaters	without
Brake:	without

Terminal box

Lead Wire Connection	6 LEAD - DELTA			
Voltage	L1	L1	L1	Connected together
-- -- --	-- -- --	-- -- --	-- -- --	-- -- --
-- -- --	T1	T2	T3	-- -- --

Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Material of terminal box	Cast Iron
Cable entry	3" NPT

Notes:

I_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_K/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.	technical reference	created by	approved by	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies*

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datasheet	released	
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rev.	creation date	language	Page
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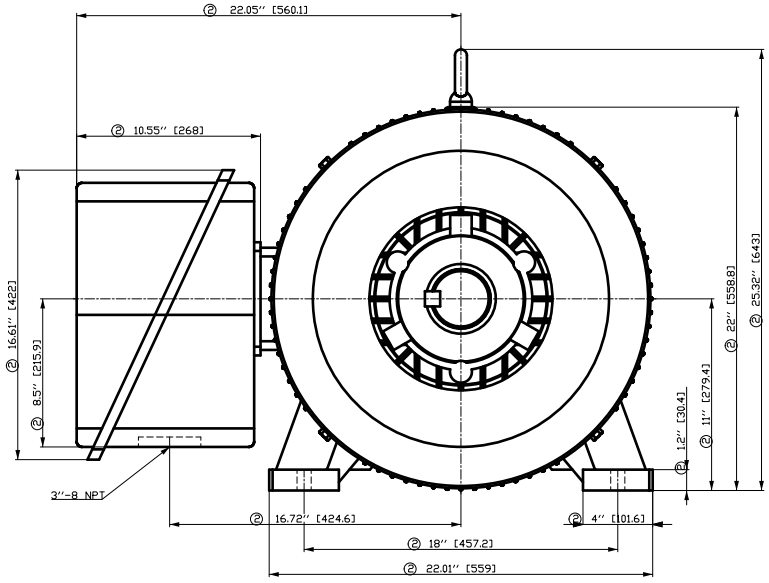

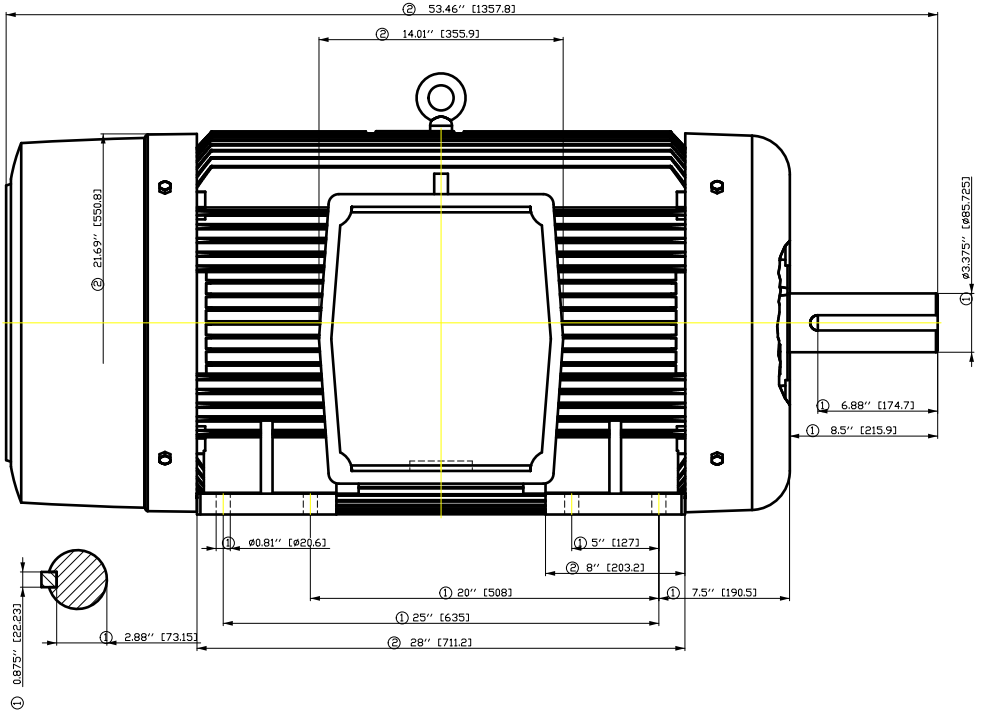

① Tolerances according to NEMA std.

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
			-	mm
1LE2321-4EC61-2AA3 -	Author	Dimensional drawing MaÇzeichnung		
	Creator DTK			
	Approval			
	Department			
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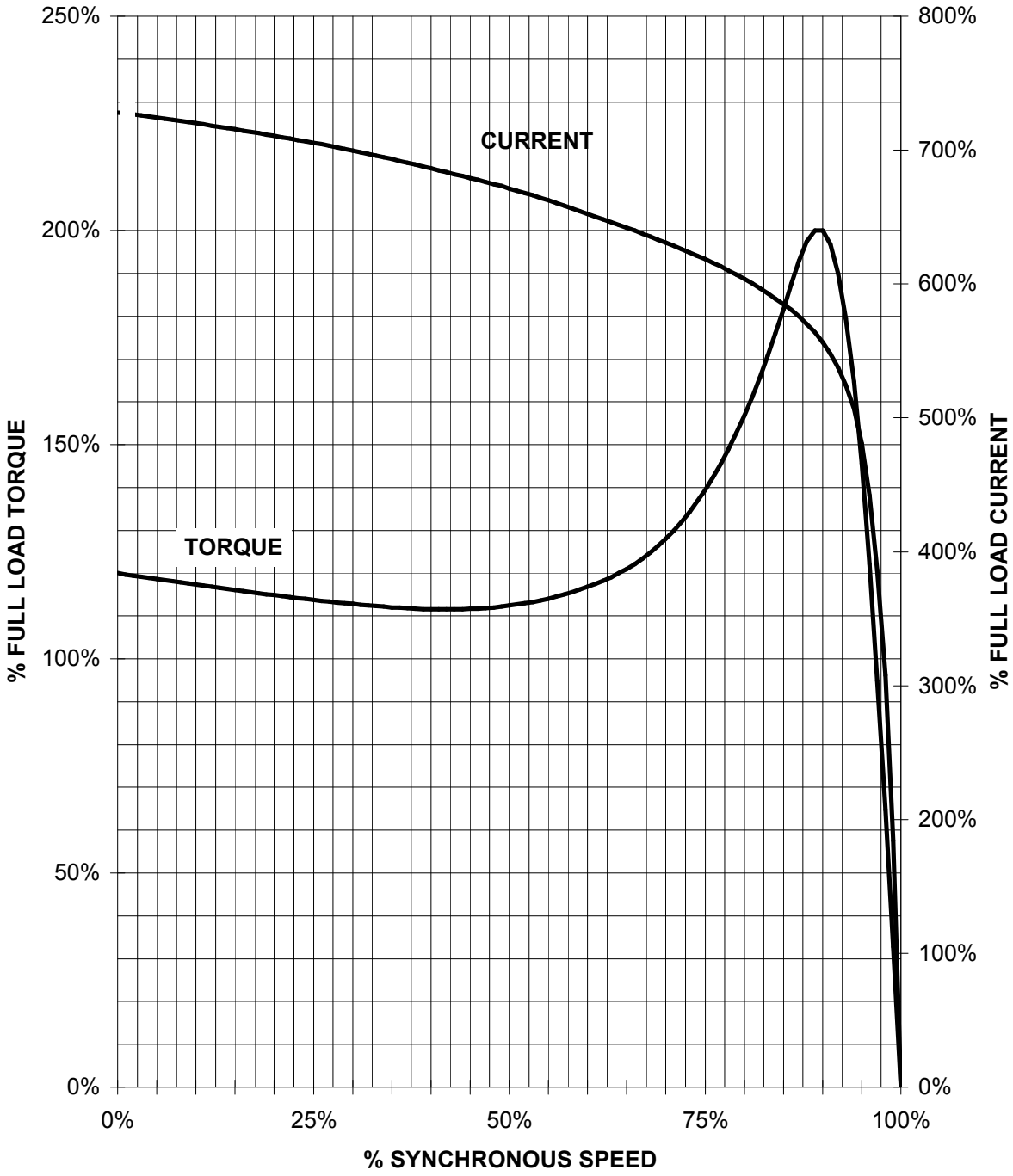
HP	250	VOLTS	< 600V	RPM	1200	TYPE	SD100
HZ	60	PHASE	3	FRAME	B449T	NEMA	B

TORQUE & CURRENT VS. SPEED

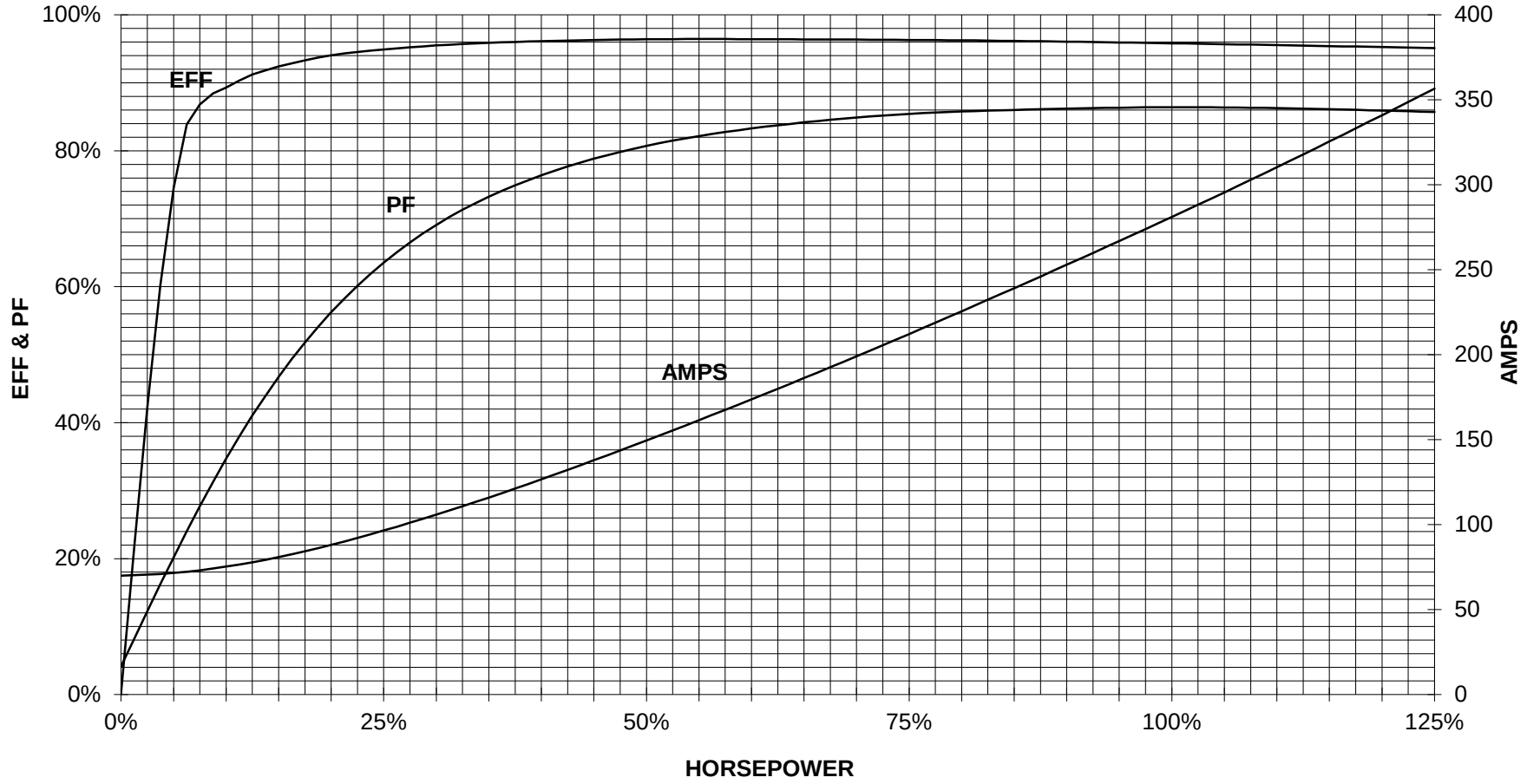


CUSTOMER: _____ ORDER#: _____

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

250 HP 1200 RPM B449T FRAME 460 VOLTS 3 PHASE NEMA DESIGN A

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100



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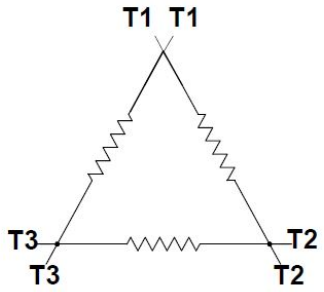
REV. 1

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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	title: 1LE2321-4EC61-2AA3		document number		
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