

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

**Motor type:** FS: B449T - 6p - 200 hp -

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project
Remarks		

**Electrical data** **Class I Division 1 Groups D**

U [V]	$\Delta/Y$	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					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	LRC	4/4	3/4	2/4	4/4	3/4	2/4			
460		60	200.00	-/-	1,190	227.00	175.90	130.60	73.00	1450.0	95.8	96.2	95.6	86.0	83.0	75.0	883.0	125	201
Frame Type: B449T		Type of constr.: (A) Foot mounted - End shield				Ins. Cl.:Insulation class F		Motor Prot.:(A) No winding protection			NEMA Des.: B		S.F.: 1.15						
Mtr. WT:2,440						Temp. Rise Cl.: B		Amb. Temp.: + to -20 °C @1000 m			kVA: G		IP IP65						

**Mechanical data**

Sound level (SPL / SWL) at 60 Hz	74.0 dB(A) / 85.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz		Safe Stall Time Hot	25 s
250	500	1000	2000
4000	8000	Hz	
SPL@3	dB(A)		Safe Stall Time Cold
		Frame material	cast iron
Moment of inertia	89.7 Lb-ft <sup>2</sup>	Color, paint shade	
Ext Load Inertia Capability:	2240.0 Lb ft <sup>2</sup>	Coating (paint finish)	
<b>Bearings</b>		<b>Ventilation Type</b>	
Bearing DE   NDE	6318 Z C3 S0	6316 Z C3 S0	Method of cooling
Bearing_Type	Ball Bearing	Ball Bearing	TEFC
AFBMA:	90BC03JP30	80BC03JP30	Direction of rotation
<b>Grease</b>			Bidirectional
Capacity	14.5 oz	7.5 oz	Fan Material
Grease Type:	Exxon Mobile EM		Polypropylen ESD
			VFD
			CT: 4:1 VT: 20:1
			Space heaters
			without
			Brake:
			-/-


**Terminal box**

Lead Wire Connection	6 LEAD - DELTA	Terminal box position	(3) Mounting - F-1
Voltage	L1	L1	L1
	Connected together	Material of terminal box	
----	----	Cable entry	-/-
----	T1	T2	T3
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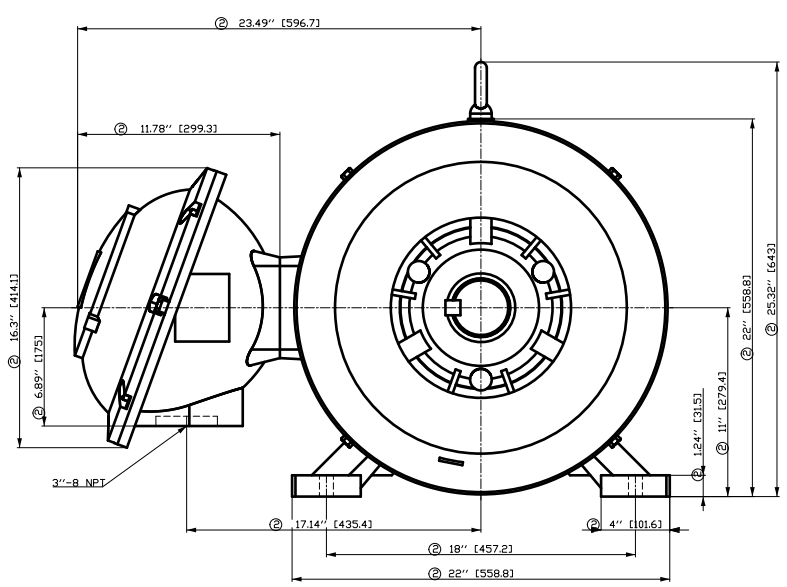
**Notes:**

I<sub>r</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>r</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>b</sub>/M<sub>N</sub> = break down torque / nominal torque

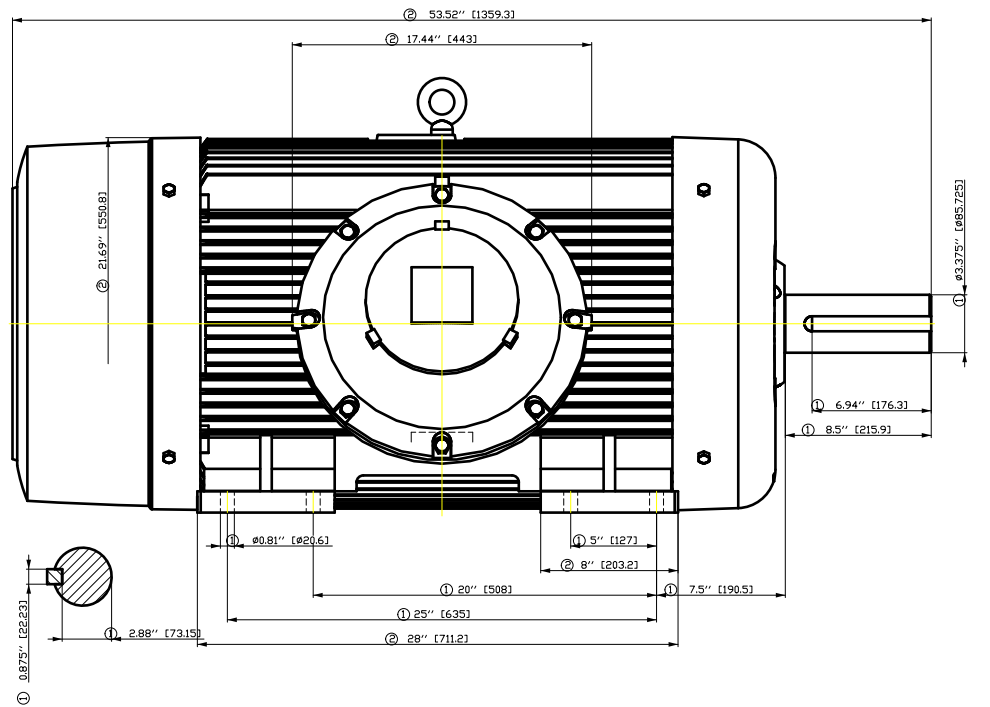
3) Value is valid only for DOL operation with motor design IC411  
2) at rated power / at full load

responsible dep.	technical reference	created by	approved by	<i>Technical data are subject to change! There may be discrepancies between software and customer interface</i>			
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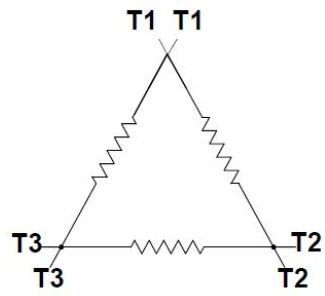


- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.




Tolerance	Surface	Material	Weight	Scale
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Main terminal diagram



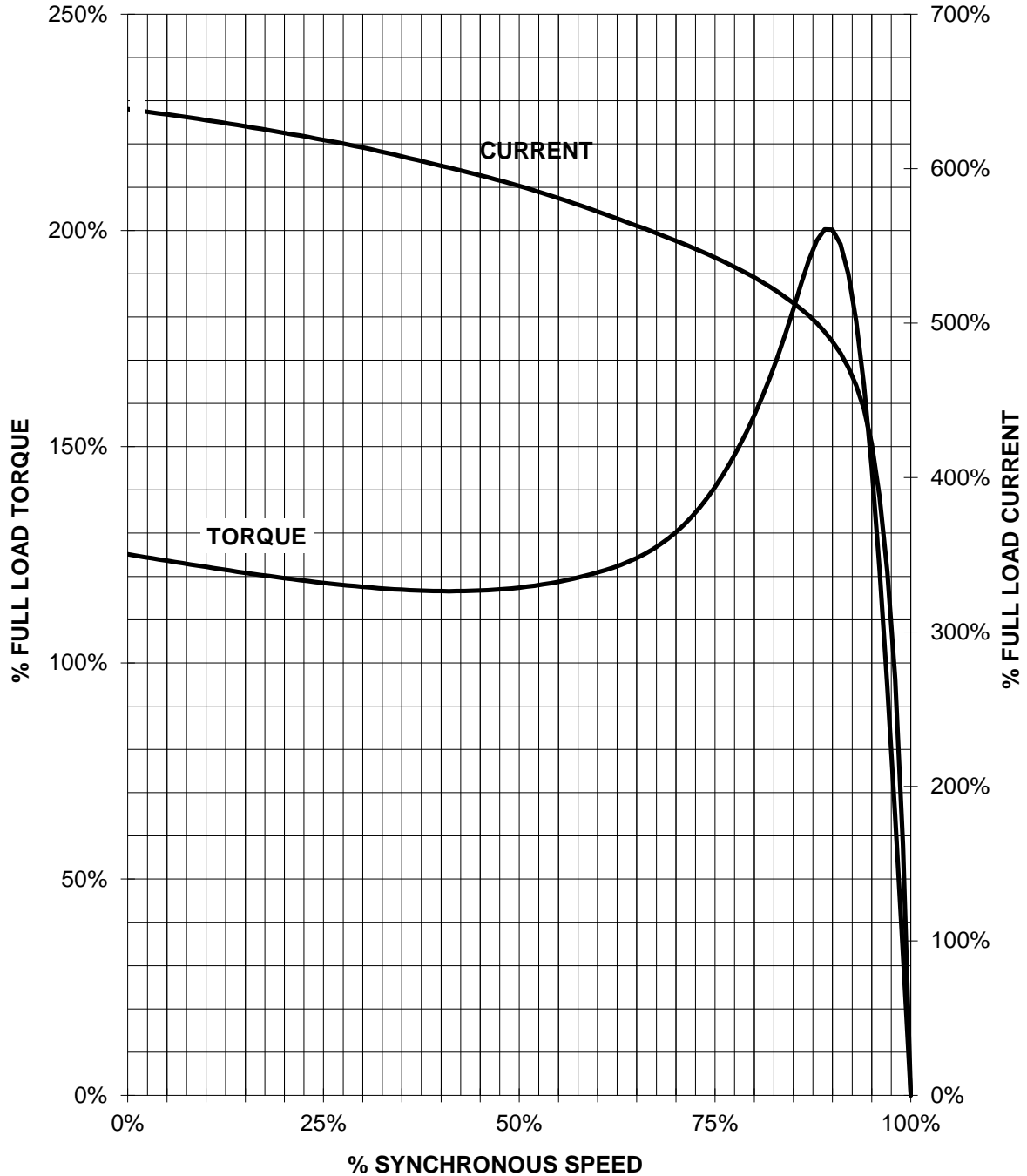
6 LEAD DELTA			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Δ

responsible dep. DI MC LVM	technical reference	created by	approved by	Project		
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	title 1MB2221-4EC51-2AA3		document number			
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# SIEMENS INDUSTRY, INC.

HP 200    VOLTS <600    RPM 1200    TYPE XP100 1D1  
HZ 60    PHASE 3    FRAME B449T    NEMA B

## TORQUE & CURRENT VS. SPEED



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