

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

Motor type: FS: 449TS - 4p - 250 hp -

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

Electrical data Class I, Div 1 Gr. C&D; Class II, Div1, Gr. F&G

U [V]	Δ/Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					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	LRC	4/4	3/4	2/4	4/4	3/4	2/4			
460		60	250.00	-/-	1,785	278.00	214.50	156.10	90.00	2100.0	96.2	96.3	96.1	87.0	85.0	78.0	735.0	140	200
Frame Type: 449TS		Type of constr.: (A) Foot mounted - End shield				Ins. Cl.:Insulation class F		Motor Prot.:(G) Thermostats, Klixon type, normally closed				NEMA Des.: A		S.F.: 1.15					
Mtr. WT:2,490						Temp. Rise Cl.: B		Amb. Temp.: + to -20 °C @1000 m				kVA: H		IP IP65					

Mechanical data

Sound level (SPL / SWL) at 60 Hz	76.0 dB(A) / 87.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz		Safe Stall Time Hot	18 s
250	500	1000	2000
4000	8000	Hz	
SPL@3		dB(A)	
Moment of inertia	69.1 Lb-ft ²	Safe Stall Time Cold	25 s
Ext Load Inertia Capability:	1020.0 Lb ft ²	Frame material	cast iron
Bearings		Color, paint shade	
Bearing DE NDE	6316 Z C3 S0	6316 Z C3 S0	
Bearing_Type	Ball Bearing	Ball Bearing	
AFBMA:	80BC03JP30	80BC03JP30	
Grease		Coating (paint finish)	
Capacity	7.5 oz	7.5 oz	
Grease Type:	Exxon Mobile EM	Ventilation Type	
		Method of cooling	TEFC
		Direction of rotation	Bidirectional
		Fan Material	Polypropylen ESD
		VFD	CT: n/a 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	
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----	T1	T2	T3

		Cable entry	-/-

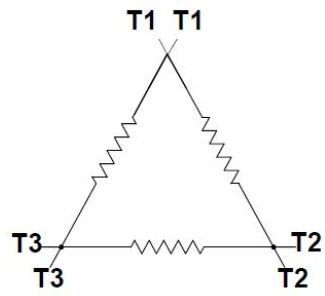
Notes:

I_r/I_N = locked rotor current / current nominal
M_r/M_N = locked rotor torque / torque nominal
M_b/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	<i>Technical data are subject to change! There may be discrepancies between software and customer interface</i>			
DI MC LVM		DT Configurator					
	document type	document status		customer			
	datasheet	released					
	title	document number					
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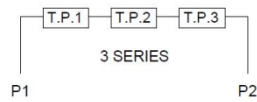
Main terminal diagram



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

Motor protection

THERMOSTATS



responsible dep.
DI MC LVM

technical reference

created by

approved by

Project

SIEMENS

document type
Wiring Diagram

title
1MB2121-4DB51-2AG3

document status
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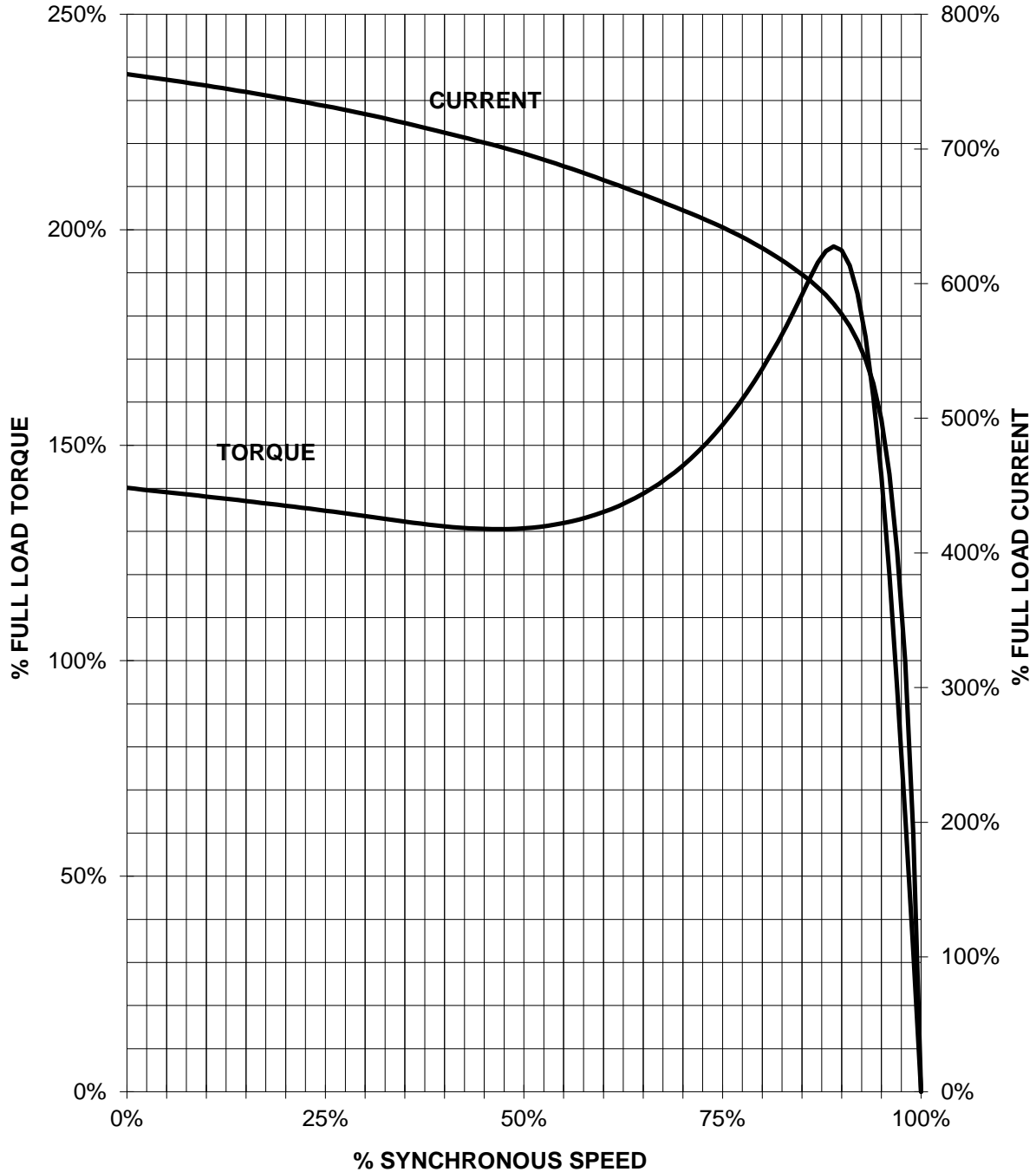
document number

customer

SIEMENS INDUSTRY, INC.

HP 250 VOLTS <600 RPM 1800 TYPE XP100
HZ 60 PHASE 3 FRAME 449TS NEMA B

TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____