

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

Motor type: FS: 405T - 8p - 60 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]					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		60	60.00	-/-	885	78.00	60.30	45.80	30.00	435.0	92.4	93.1	93.0	78.0	75.0	66.0	356.0	140	200	
230		60	60.00	-/-	885	156.00					92.4	93.1	93.0	78.0	75.0	66.0	356.0	140	200	

Frame Type: 405T	Type of constr.: (A) Foot mounted - End shield	Ins. Cl.:Insulation class F	Motor Prot.:(G) Thermostats, Klixon type, normally closed	NEMA Des.: B	S.F.: 1.15
Mtr. WT:1,050		Temp. Rise Cl.: B	Amb. Temp.: + to -20 °C @1000 m	kVA: G	IP IP65

Mechanical data

Sound level (SPL / SWL) at 60 Hz	66.0 dB(A) / 77.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz	250 500 1000 2000 4000 8000 Hz	Safe Stall Time Hot	30 s
SPL@3		Safe Stall Time Cold	35 s
Moment of inertia	30.0 Lb-ft ²	Frame material	cast iron
Ext Load Inertia Capability:	1470.0 Lb ft ²	Color, paint shade	
Bearings		Coating (paint finish)	
Bearing DE NDE	6316 Z C3 S0 6316 Z C3 S0	Ventilation Type	
Bearing_Type	Ball Bearing Ball Bearing	Method of cooling	TEFC
AFBMA:	80BC03JP30 80BC03JP30	Direction of rotation	Bidirectional
Grease		Fan Material	Polypropylen ESD
Capacity	7.5 oz 7.5 oz	VFD	CT: n/a VT: 20:1
Grease Type:	Exxon Mobile EM	Space heaters	without
		Brake:	-/-

Terminal box

Lead Wire Connection	9 LEAD - DELTA	Terminal box position	(3) Mounting - F-1
Voltage	L1 L1 L1 Connected together	Material of terminal box	
LOW	T1 T7 T6 T2 T8 T4 T3 T9 T5	Cable entry	-/-
HIGH	T1 T2 T3 T4 T7-T5 T8-T6 T9		

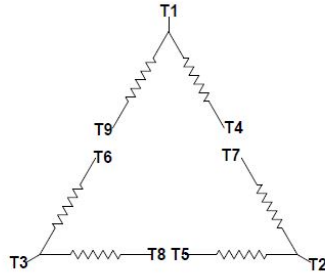
Notes:

1) I_L/I_N = locked rotor current / current nominal
 2) M_L/M_N = locked rotor torque / torque nominal
 3) Value is valid only for DOL operation with motor design IC411
 4) M_L/M_N = break down torque / nominal torque
 5) 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 hardware versions</i>
DI MC LVM		DT Configurator		

	document type	document status	customer	
	datasheet	released		
	title	document number		
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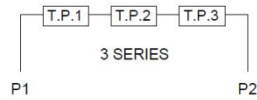
Main terminal diagram



9 LEAD DELTA						
Volts	LINES			CONNECTED TOGETHER	CONN.	
	L1	L2	L3			
LOW	T1 T6	T7 T4	T8 T5	T3 T9		Δ Δ
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9		Δ

Motor protection

THERMOSTATS



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DI MC LVM

technical reference

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Project

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document type
Wiring Diagram

title
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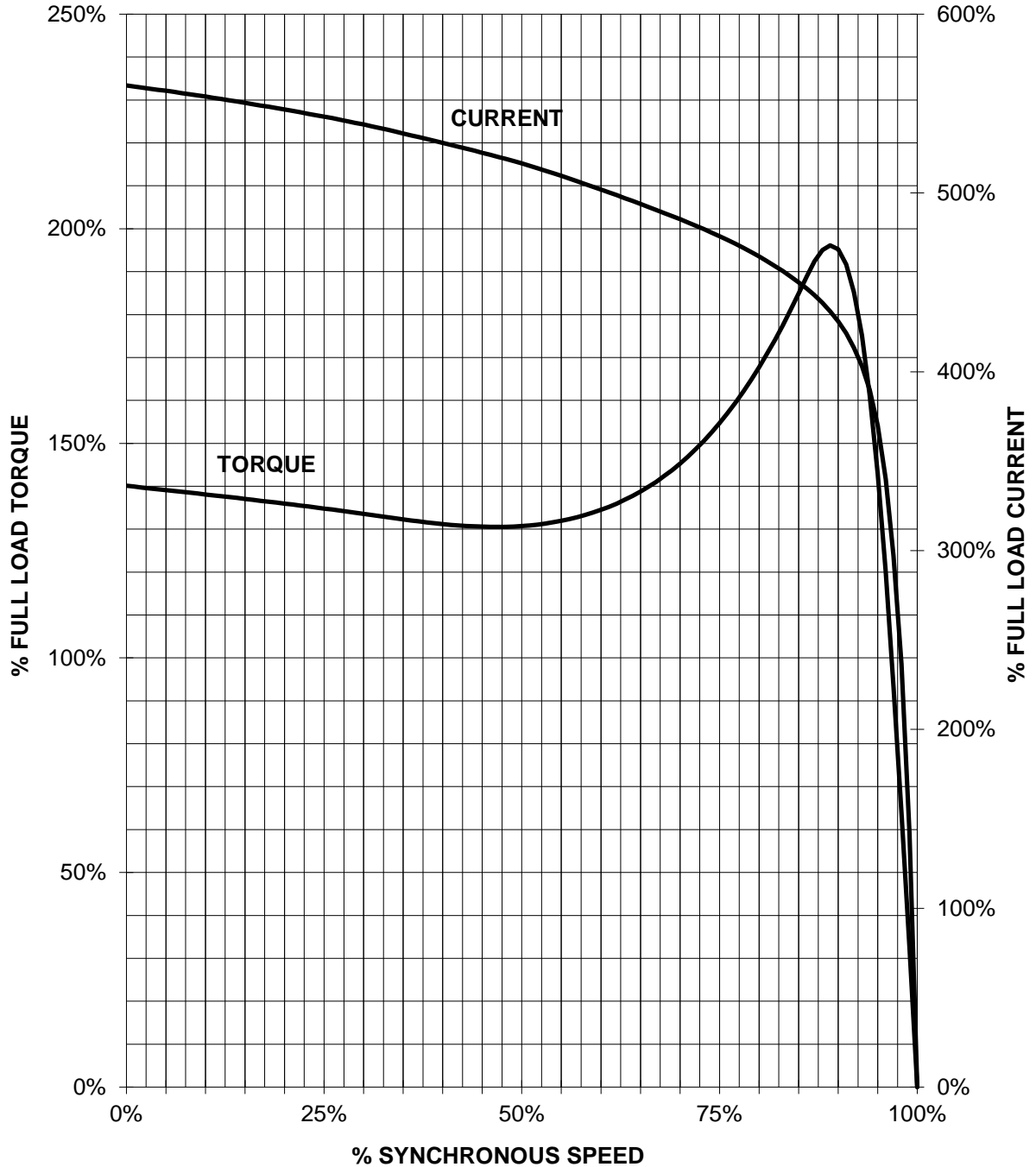
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SIEMENS INDUSTRY, INC.

HP 60 VOLTS <600 RPM 900 TYPE XP100
HZ 60 PHASE 3 FRAME 405T NEMA B

TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____