

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

Motor type: **SD200 NEMA Premium Next Generation** FS: 5,011 - 4p - 500 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]					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	$\Delta \Delta$	60	500.00	373.00	1,790	570	425.20	310.20	160.00	3625.0	96.7	96.8	96.5	84.9	85.3	78.2	1469.2	230	250

Frame Type: 5,011	Type of constr.: (A) Foot Mounted Horizontal (IMB3)	Ins. Cl.: Standard Class H Insulation	Motor Prot.: A: No Winding Protection	NEMA Des.: B	S.F.: 1.15
Mtr. WT: 4,509		Temp. Rise Cl.: B	Amb. Temp.: + 40 to °C @1000 m	kVA: G	IP 55

Mechanical data

Sound level (SPL / SWL) at 60 Hz	81.0 dB(A) / 94.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz		Safe Stall Time Hot	18 s
250	500	Safe Stall Time Cold	22 s
1000	2000	Frame material	Cast iron
4000	8000	Color, paint shade	RAL 7030
SPL@3	77.0 75.0 72.0 67.0 62.0 58.0 dB(A)	Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Moment of inertia	158.0 Lb-ft ²	Ventilation Type	
Ext Load Inertia Capability:	1880.0 Lb ft ²	Method of cooling	TEFC
Bearings		Direction of rotation	Bi-Directional
Bearing DE NDE	6322 Z C3 S0 6322 Z C3 S0	Fan Material	Polypropylene ESD
Bearing_Type	Ball Bearing Ball Bearing	VFD	CT: 4:1 VT: 20:1
AFBMA:	110BC03JP3 110BC03JP3	Space heaters	without
Grease		Brake:	-/-
Capacity	17 oz 17 oz		
Grease Type:	Exxon Mobil EM		

Terminal box

Lead Wire Connection	12 TERMINAL - Connection DELTA	Terminal box position	(1) LHS Mount - View From DE (F-1) - DE or Center of Motor
Voltage	L1 L1 L1 Connected together	Material of terminal box	Cast Iron
---	---	Cable entry	(1) 5" NPT
RUN	T12-T7-T6-T1 T10-T8-T4-T2 T11-T9-T5-T13 --- $\Delta \Delta$		

Notes:

1) I_L/I_N = locked rotor current / current nominal
 2) M_L/M_N = locked rotor torque / torque nominal
 3) M_L/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

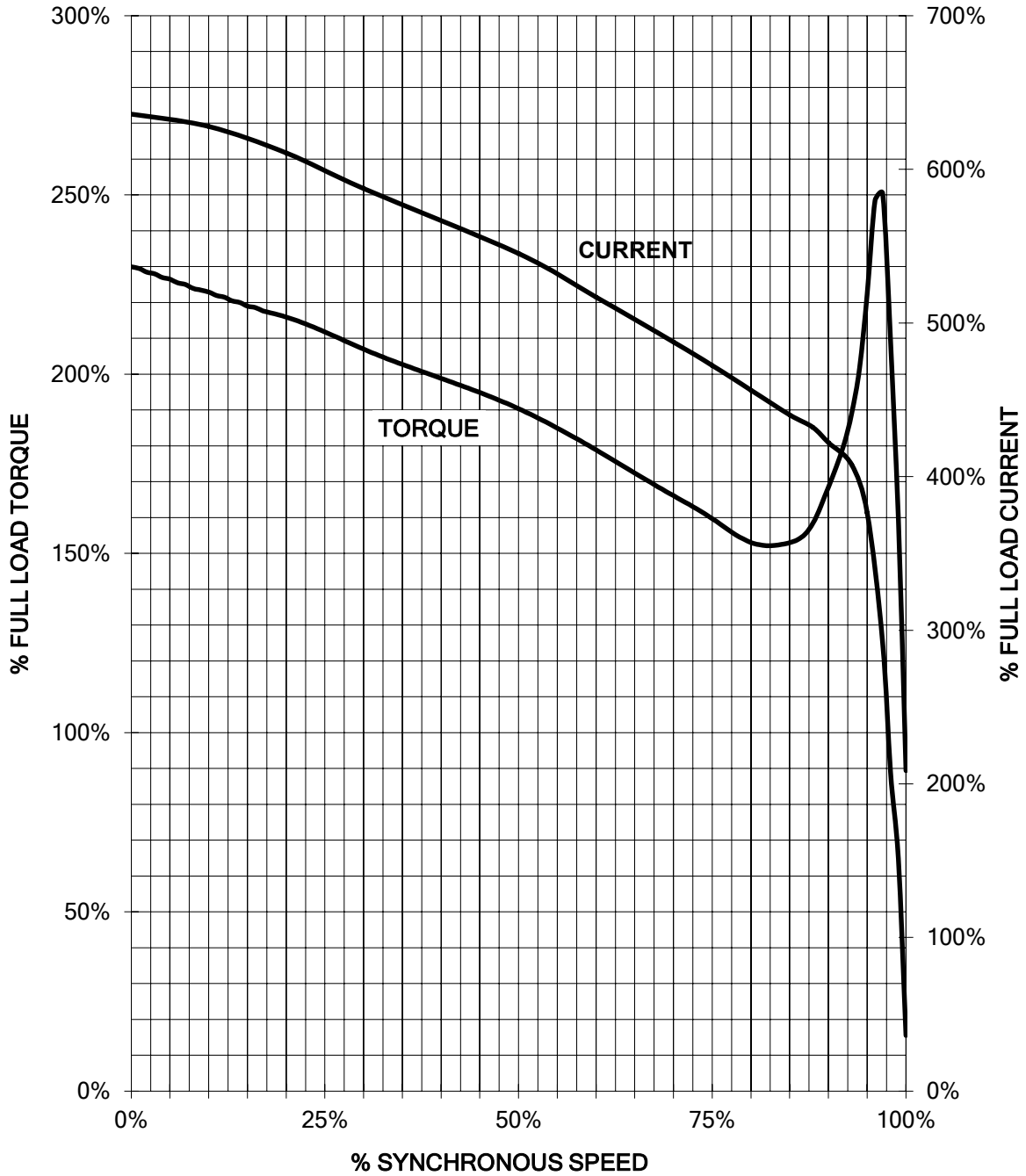
responsible dep.	technical reference	created by	approved by	<i>Technical data are subject to change! There may be discrepancies between datasheet and motor nameplate</i>
DI MC LVM		DT Configurator		

	document type	document status	customer	
	datasheet	released		
	title	document number		
	1LE6321-5AB81-2AA1			
		rev.	creation date	language Page
		01	2022-04-08 01:09	en 1/1

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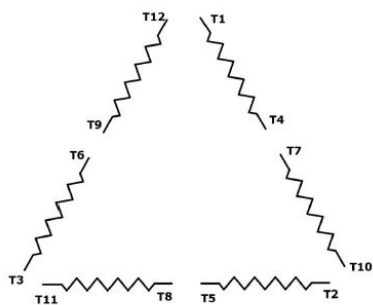
HP 500 VOLTS 460 RPM 1790 TYPE SD200
HZ 60 PHASE 3 FRAME 5011 NEMA B

TORQUE & CURRENT VS. SPEED



Unrestricted CUSTOMER: _____ ORDER#: _____

Main terminal diagram



12 LEAD DELTA		
LINES	CONNECT TOGETHER	CONN.
L1	T12 - T7 - T6 - T1	ΔΔ
L2	T10 - T8 - T4 - T2	
L2	T11 - T9 - T5 - T3	

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SIEMENS	document type Wiring Diagram	document status free		customer
	title 1LE6321-5AB81-2AA1	document number		
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