

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

Motor type: SD200 NEMA Premium Next Generation **FS: 509 - 4p - 400 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	400.00	298.40	1,790	460	355.10	255.10	140.00	2900.0	96.5	96.7	96.2	84.4	81.8	76.3	1174.6	230	250
Frame Type: 509		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: 4,105					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	19 s					
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	23 s
SPL@3	77.0	75.0	72.0	67.0	62.0	58.0	dB(A)	Frame material	Cast iron
Moment of inertia	128.0 Lb-ft ²		Color, paint shade	RAL 7030					
Ext Load Inertia Capability:	1550.0 Lb ft ²		Coating (paint finish)	Standard Alkyed + Epoxy (C2)					
Bearings			Ventilation Type						
Bearing DE NDE	6322 Z C3 S0		6322 Z C3 S0						
Bearing_Type	Ball Bearing		Ball Bearing						
AFBMA:	110BC03JP3		110BC03JP3						
Grease			Method of cooling						
Capacity	17 oz		17 oz						
Grease Type:	Exxon Mobil EM		TEFC						
			Direction of rotation						
			Bi-Directional						
			Fan Material						
			Polypropylene ESD						
			VFD						
			CT: 4:1 VT: 20:1						
			Space heaters						
			without						
			Brake:						
			-/-						

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	----		



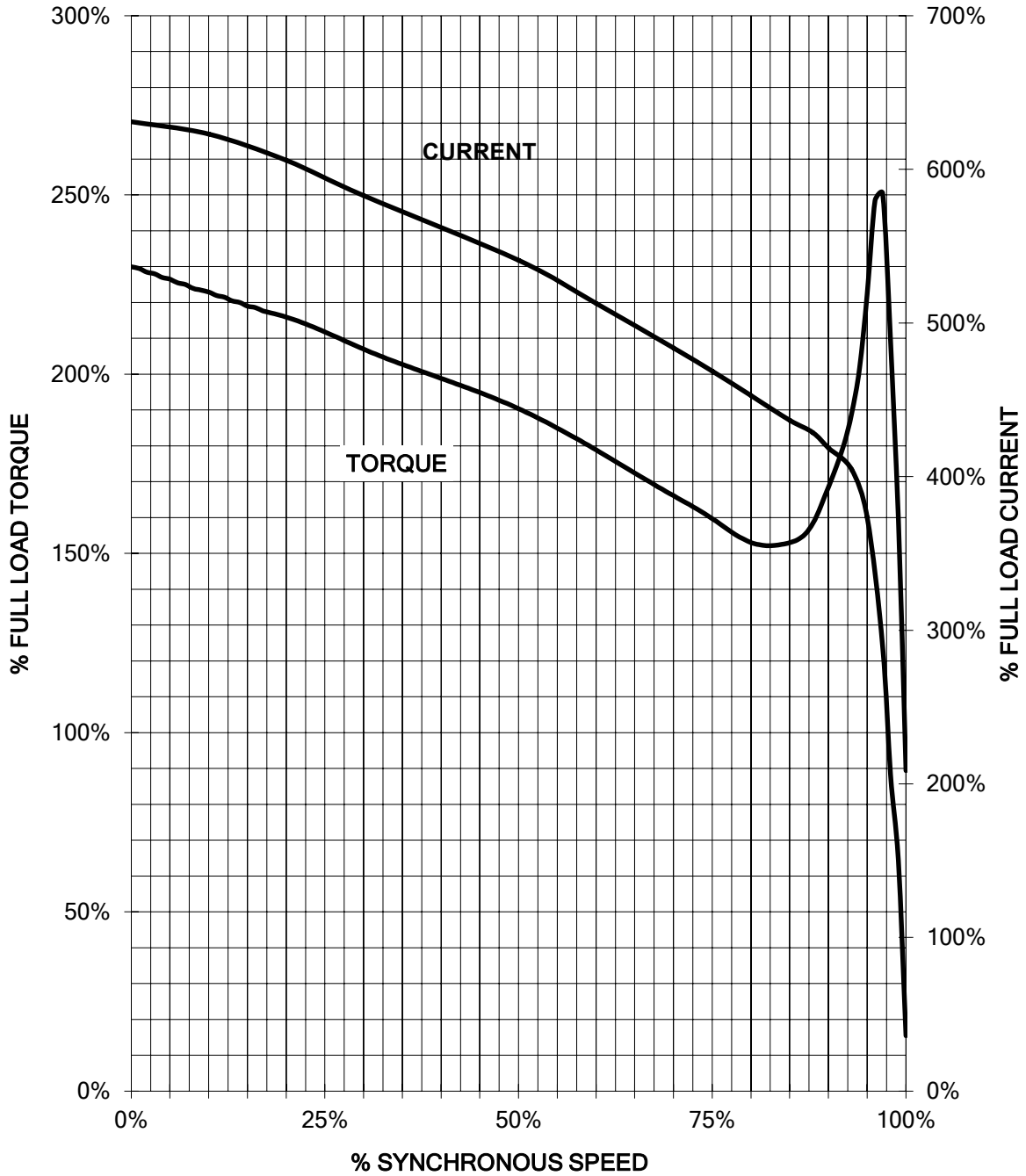
Notes:
 I_L/I_N = locked rotor current / current nominal
 M_L/M_N = locked rotor torque / torque nominal
 M_k/M_N = break down torque / nominal torque
 3) Value is valid only for DOL operation with motor design IC411
 2) at rated power / at full load

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between software and hardware versions</i>	
	document type datasheet	document status released		customer	
	title 1LE6321-5AB11-2AA1	document number			
© Siemens AG 2022	rev. 01	creation date 2022-04-08 01:08	language en	Page 1/1	

SIEMENS INDUSTRY, INC.

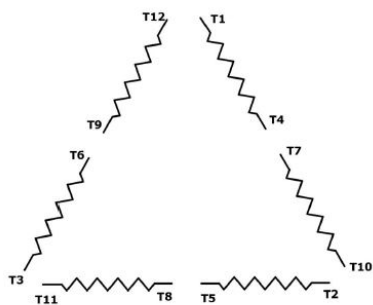
HP 400 VOLTS 460 RPM 1790 TYPE SD200
HZ 60 PHASE 3 FRAME 509 NEMA B

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	

responsible dep. DI MC LVM	technical reference	created by	approved by	Project
SIEMENS	document type Wiring Diagram	document status free		customer
	title 1LE6321-5AB11-2AA1	document number		
© Siemens AG 2019	rev. 01	creation date 12/03/2019	language en	Page 1/1