

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

Motor type: SD200 NEMA Premium Next Generation **FS: 5013S - 6p - 600 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 T2D**

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	600.00	447.60	1,190	695	535.20	391.40	245.00	4518.0	96.2	96.6	96.6	84.1	81.5	74.3	2644.9	270	250
Frame Type: 5013S			Type of constr.: (A) Foot Mounted Horizontal (IMB3)				Ins. Cl.: Standard Class H Insulation		Motor Prot.: K: Stator RTD's, 2 Per Phase			NEMA Des.: -/-			S.F.: 1.15				
Mtr. WT: 5,391							Temp. Rise Cl.: B		Amb. Temp.: + 40 to °C @1000 m			kVA: G			IP 55				

Mechanical data

Sound level (SPL / SWL) at 60 Hz	77.0 dB(A) / 90.0 dB(A)		Thickener	Polyurea					
Octave Band Center Frequencies Hertz			Safe Stall Time Hot	30 s					
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	35 s
SPL@3	72.0	72.0	66.0	60.0	54.0	54.0	dB(A)	Frame material	Cast iron
Moment of inertia	323.0 Lb-ft ²		Color, paint shade	RAL 7030					
Ext Load Inertia Capability:	6030.0 Lb ft ²		Coating (paint finish)	Standard Alkyed + Epoxy (C2)					
Bearings			Ventilation Type						
Bearing DE NDE	6322 Z C3 S0		6322 Z C3 S0	Method of cooling	TEFC				
Bearing_Type	Ball Bearing		Ball Bearing	Direction of rotation	Bi-Directional				
AFBMA:	110BC03JP3		110BC03JP3	Fan Material	Polypropylene ESD				
Grease			VFD	CT: 4:1 VT: 20:1					
Capacity	17 oz		17 oz	Space heaters	without				
Grease Type:	Exxon Mobil EM		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

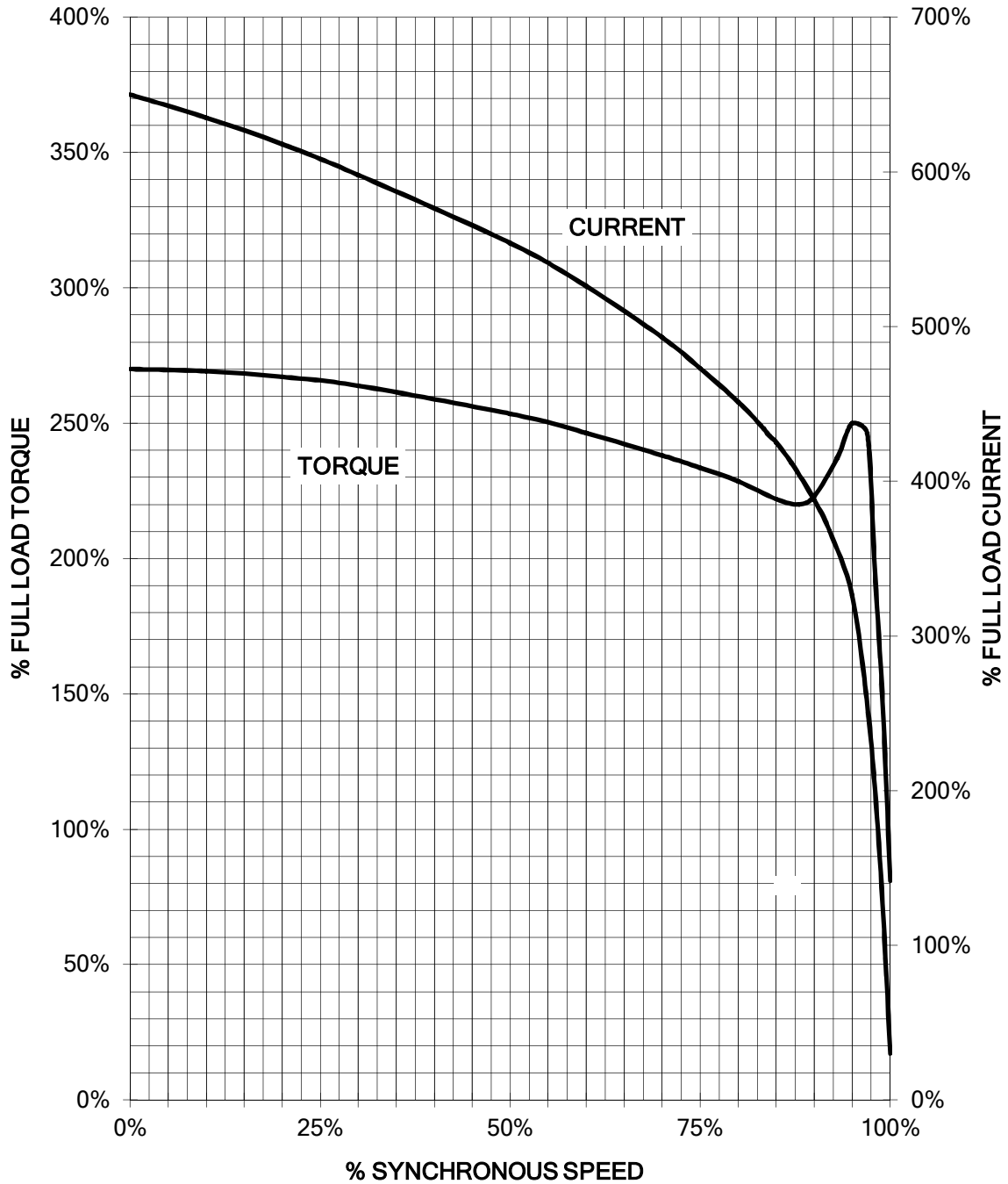
3) Value is valid only for DOL operation with motor design IC411
2) at rated power / at full load

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 1LE6321-5FC71-2AK1	document number			
© Siemens AG 2022	rev. 01	creation date 2022-04-08 01:28	language en	Page 1/1	

SIEMENS INDUSTRY, INC.

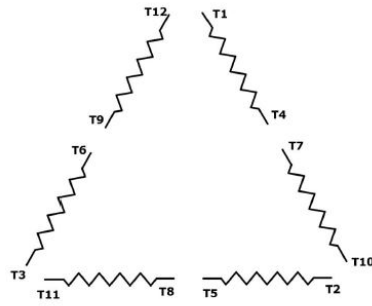
HP 600 VOLTS 460 RPM 1190 TYPE SD200
HZ 60 PHASE 3 FRAME 5013 NEMA _____

TORQUE & CURRENT VS. SPEED



Unrestricted CUSTOMER: _____ ORDER#: _____

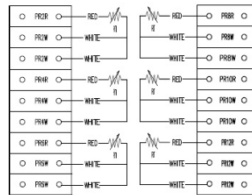
Main terminal diagram



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

Motor protection

3 WIRE STATOR RTDs



responsible dep. DI MC LVM	technical reference	created by	approved by	Project
SIEMENS	document type Wiring Diagram	document status free		customer
	title 1LE6321-5FC71-2AK1	document number		
© Siemens AG 2019		rev. 01	creation date 12/03/2019	language en Page 1/1