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

Motor type: **SD100** **FS: 184T - 4p - 5 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

U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps] 4/4	3/4	1/2	0	LRC	Nom. Eff Load [%] 4/4	3/4	2/4	Pwr. Factor Load [%] 4/4	3/4	2/4	Torque [lb-ft]	T_A/T_N LRT [%]	T_k/T_N BDT [%]
460	Y	60	5.00	4.00	1,755	6.50	5.20	4.10	3.00	46.0	89.5	90.0	89.2	80.5	75.1	63.6	15.0	220	353
230	Y Y	60	5.00	4.00	1,755	13.00	10.39	8.25	6.00	92.0	89.5	90.0	89.2	80.5	75.1	63.6	15.0	220	353

Frame Type: 184T	Type of constr.: (G) Round body - C-Face	Ins. Cl.:Standard Class F Insulation	Motor Prot.:(A) Without Protection	NEMA Des.: B	S.F.: 1.15
Mtr. WT:135		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: J	I.P.: 55

Mechanical data

Sound level (SPL / SWL) at 60 Hz	57.0 dB(A) / 67.0 dB(A)

Octave Band Center Frequencies Hertz	250	500	1000	2000	4000	8000	Hz
SPL@3	42.0	46.0	54.0	49.0	43.0	32.0	dB(A)

Moment of inertia	0.3 Lb-ft²
Ext Load Inertia Capability:	27.0 Lb ft²

Bearings

Bearing DE | NDE	6206 Z C3 S0	6206 Z C3 S0
Bearing_Type	Ball Bearing	Ball Bearing
AFBMA:	30BC02JP30	30BC02JP30

Grease

Capacity	0.20 oz	0.20 oz
Grease Type:	Exxon Mobile EM	

Thickener	Polyurea
Safe Stall Time Hot	14 s
Safe Stall Time Cold	29 s
Frame material	cast iron
Color, paint shade	Standard Paint - RAL7030
Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Ventilation Type	
Method of cooling	TEFC
Direction of rotation	Bidirectional
Fan Material	Polypropylen ESD
VFD	CT: 20:1 VT: 20:1
Space heaters	without
Brake:	without

Terminal box

Lead Wire Connection	9 LEAD - WYE			
Voltage	L1	L1	L1	Connected together
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9

Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Material of terminal box	Cast Iron
Cable entry	.75" NPT

Notes:

I_A/I_N = locked rotor current / current nominal
M_A/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.	technical reference	created by	approved by	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values*

SIEMENS

document type		document status		customer	
datasheet		released			
title		document number			
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B09+F43+Y80		rev.	creation date	language	Page
		01	2021-04-22 08:40	en	1/2

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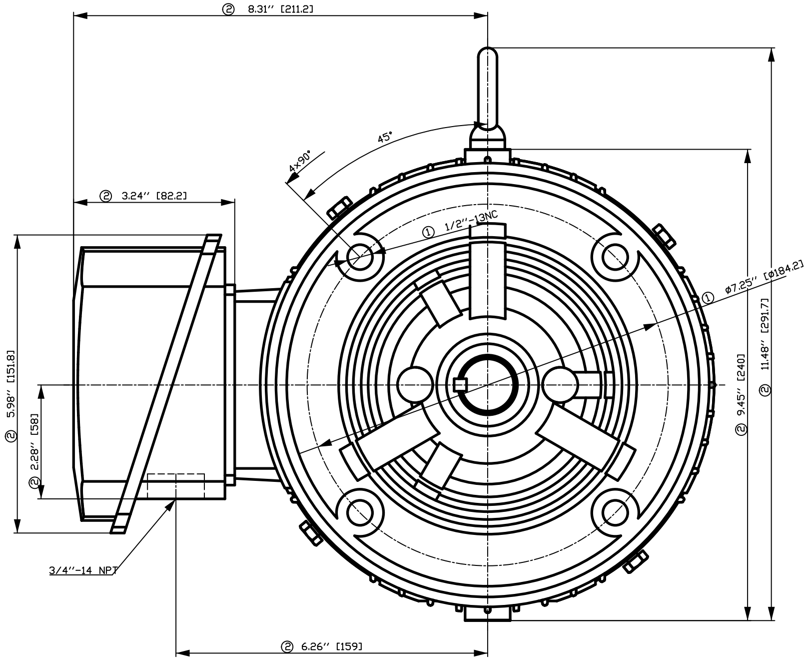
Special design

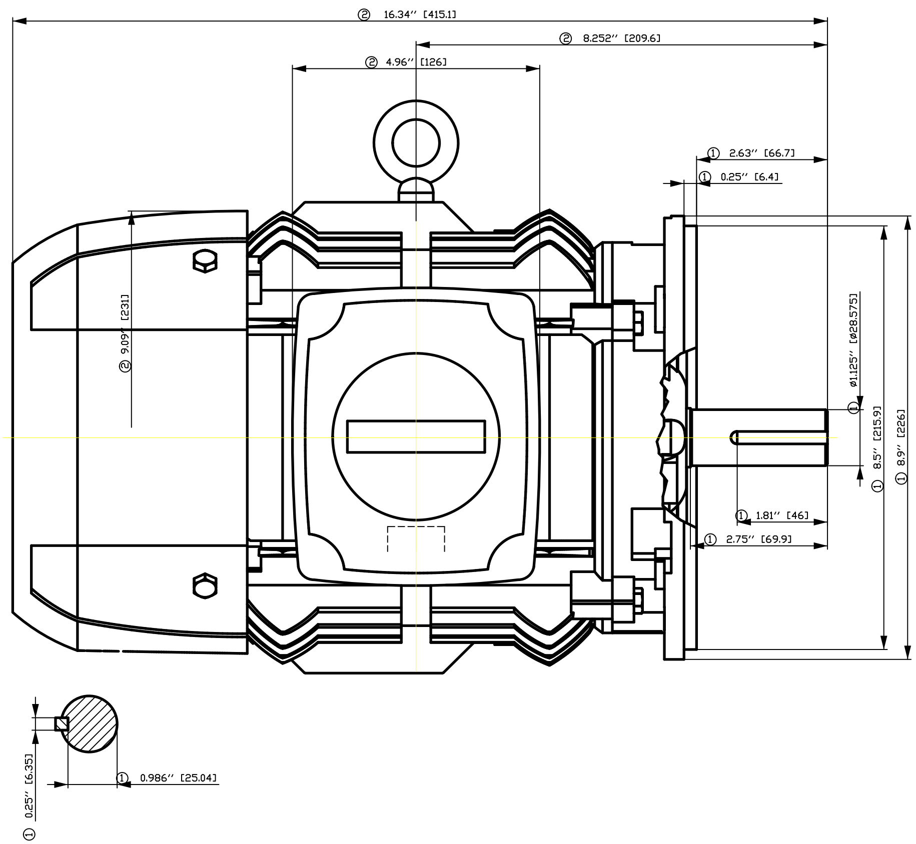
B09	Export packing sea freight - Siemens standard	Y80	Rerate / derate altitude and/or ambient:
F43	Non-standard dimension sheet		

Notes:

responsible dep.	technical reference	created by	approved by	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values*

SIEMENS	document type: datasheet		document status: released	customer	
	title: 1LE2321-1CB31-6GA3-Z B09+F43+Y80		document number		
		rev.: 01	creation date: 2021-04-22 08:40	language: en	Page: 2/2





① Tolerances according to NEMA std.

② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.

③ Not according to NEMA std.

Tolerance	Surface	Material	Weight	Scale
			-	mm
1LE2321-1CB31-6GA3-Z B09+F43+Y80	Author	Dimensional drawing MaÇzeichnung		
	Creator DTK			
	Approval			
	Department			
	Change Order	MLFB	Doc Type	
SIEMENS	Doc State 4/22/21	Item No	Paper Size A3	
	Revision Index RS	Doc No	1st Language en 2nd Language de	
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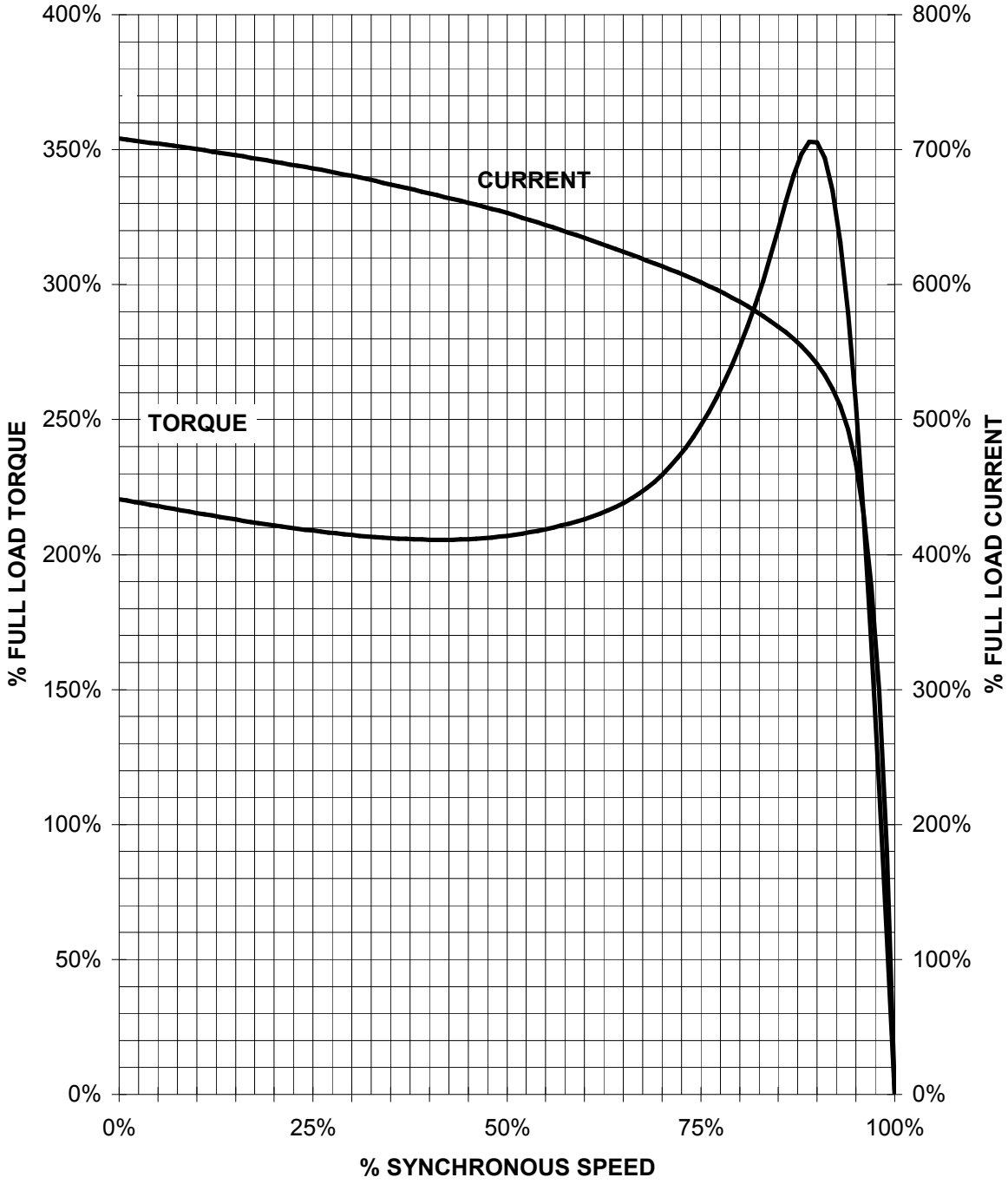
HP	5	VOLTS	< 600V	RPM	1800	TYPE	SD100
HZ	60	PHASE	3	FRAME	184T	NEMA	B

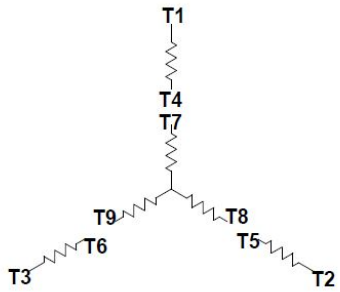
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

PERFORMANCE BASED ON DESIGN CALCULATIONS. SUBJECT TO CHANGE WITHOUT NOTICE.
REV. 1

Main terminal diagram



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

responsible dep. DI MC LVM	technical reference	created by	approved by	Project			
SIEMENS	document type Wiring Diagram			document status free		customer	
	title 1LE2321-1CB31-6GA3-Z			document number			
	B09+F43+Y80			rev. 01	creation date 12/03/2019	language en	Page 1/1