

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	
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Electrical data	Class I Division 2 Gr. A, B, C or D
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Class I Division 2 Gr. A, B, C or D

[illegible]

Frame Type: 184T	Type of constr.: (A) Foot mounted - End shield	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)							Thickener	Polyurea
Octave Band Center Frequencies Hertz								Safe Stall Time Hot	14 s
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	29 s
SPL@3	42.0	46.0	54.0	49.0	43.0	32.0	dB(A)	Frame material	cast iron
Moment of inertia	0.3 Lb-ft²							Color, paint shade	Standard Paint - RAL7030
Ext Load Inertia Capability:	27.0 Lb ft²							Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Bearings								Ventilation Type	
Bearing DE NDE	6206 Z C3 S0			6206 Z C3 S0				Method of cooling	TEFC
Bearing_Type	Ball Bearing			Ball Bearing				Direction of rotation	Bidirectional
AFBMA:	30BC02JP30			30BC02JP30				Fan Material	Polypropylen ESD
Grease								VFD	CT: 20:1 VT: 20:1
Capacity	0.20 oz			0.20 oz				Space heaters	without
Grease Type:	Exxon Mobile EM							Brake:	without

Terminal box

Lead Wire Connection		9 LEAD - WYE			Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1	L1	L1	Connected together	Material of terminal box	Cast Iron
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6	Cable entry	.75" NPT
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9		

Notes:

I_R/I_N = locked rotor current / current nominal M_R/M_N = locked rotor torque / torque nominal M_B/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
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responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and actual values.			
	document type datasheet			document status released		customer	
	title 1LE2321-1CB31-4AA3-Z			document number			
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS

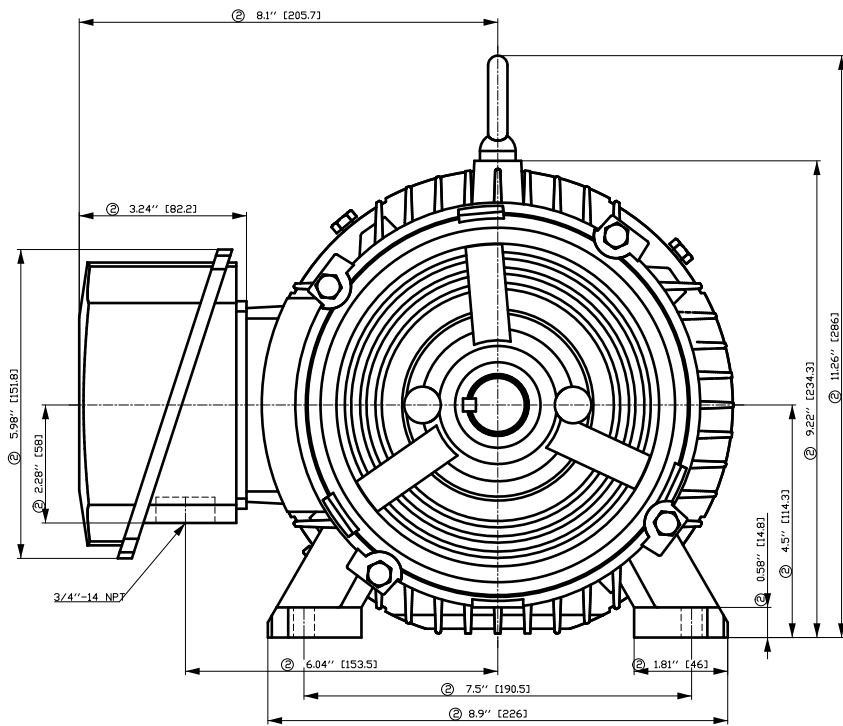
Motor type: SD100 FS: 184T - 4p - 5 hp -

Special design

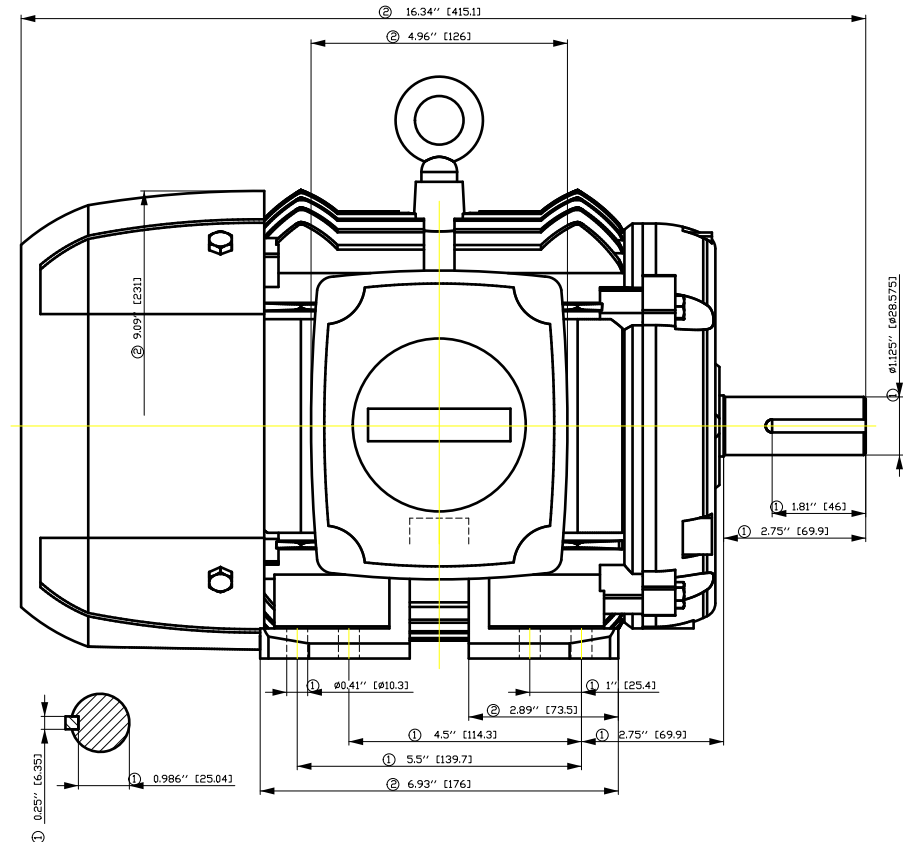
B09	Export packing sea freight - Siemens standard
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Notes:

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- 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.

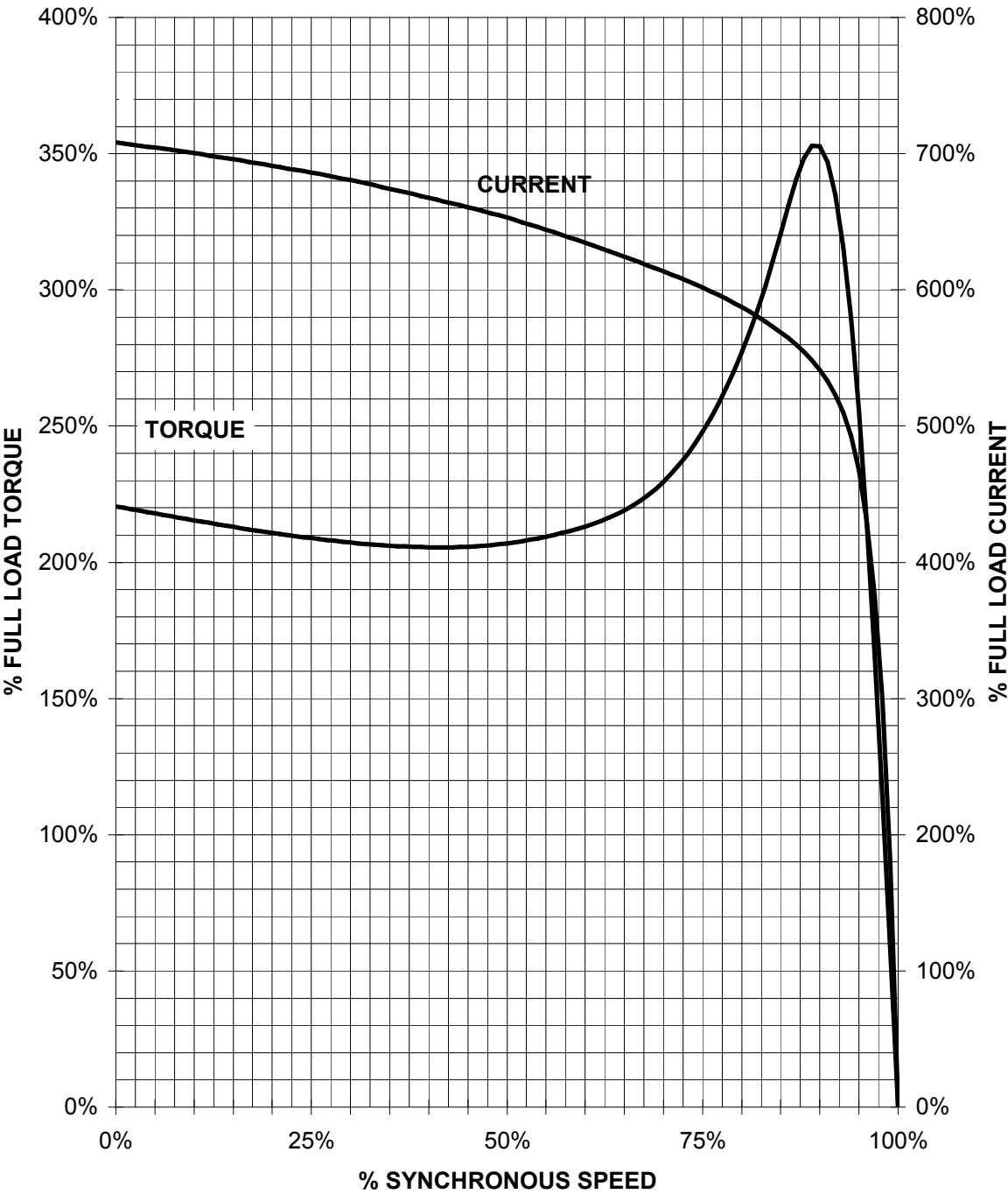


Tolerance	Surface	Material	Weight	Scale
1LE2321-1CB31-4AA3-Z B09	Author Creator Approval Department Change Order	Dimensional drawing Maßzeichnung		
SIEMENS © Siemens AG 2018	Doc. State Revision	4/21/21 RS	Item No Doc No	Doc Type Paper Size 1st Language 2nd Language Sheet
	Index			A3 en de 1 of 1
	Project No	-	Ref No	-

SIEMENS INDUSTRY, INC.

HP 5 VOLTS < 600V RPM 1800 TYPE SD100
HZ 60 PHASE 3 FRAME 184T NEMA B

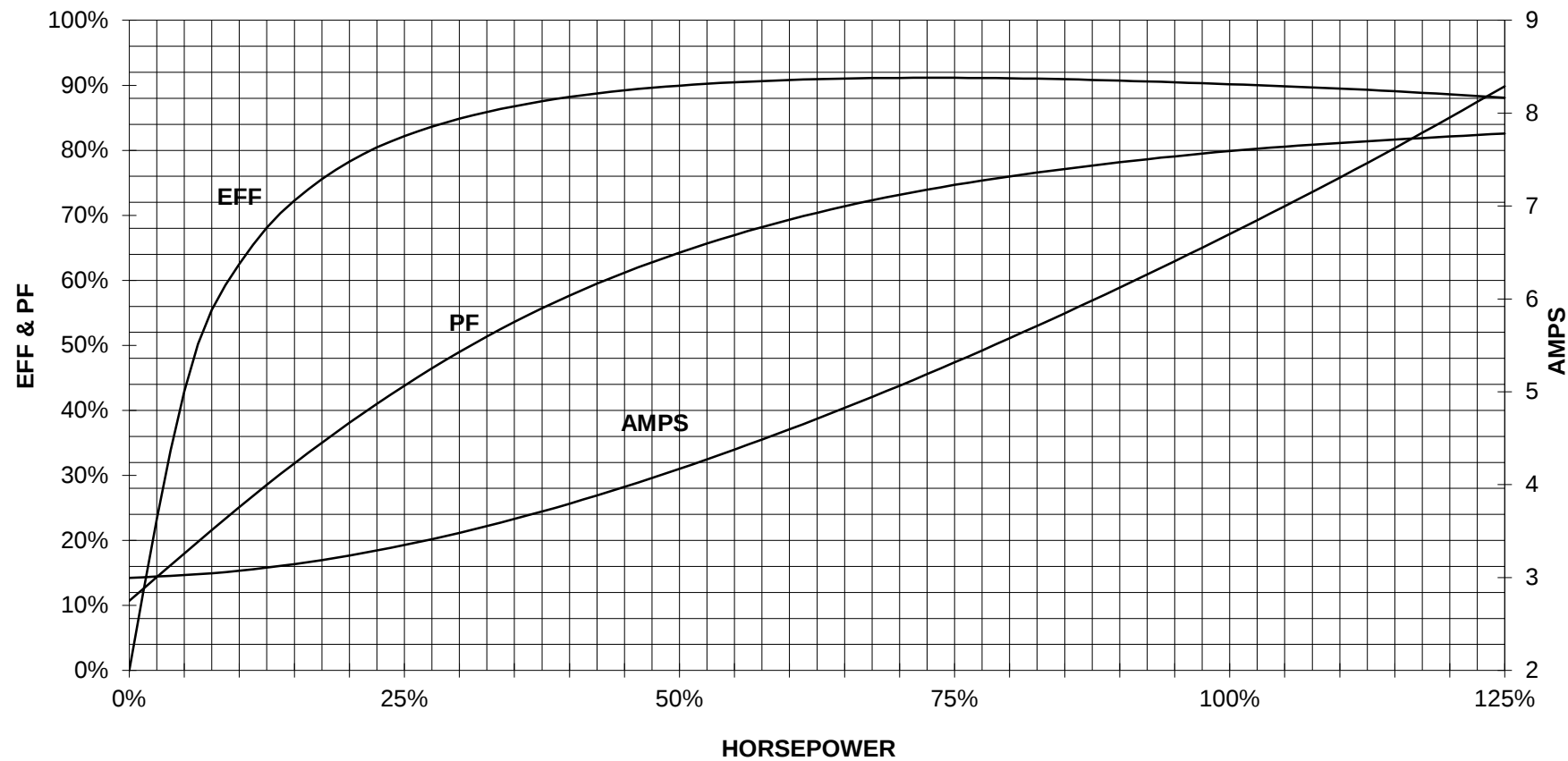
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

5 HP 1800 RPM 184T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100

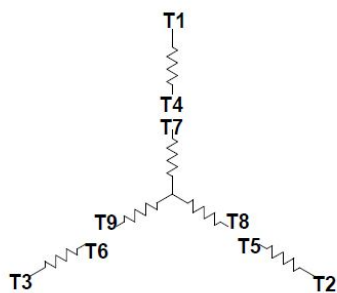


CUSTOMER _____ ORDER # _____ PO # _____

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

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document type
Wiring Diagram

title
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