

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

Motor type:	SD100 IEEE	FS: 184T - 4p - 5 hp -
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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			3 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
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-----	T1	T2	T3	-----		

Notes:

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

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between individual editions of this document.			
	document type datasheet		document status released		customer		
	title 1LE2421-1CB31-2AA3-Z		document number				
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS

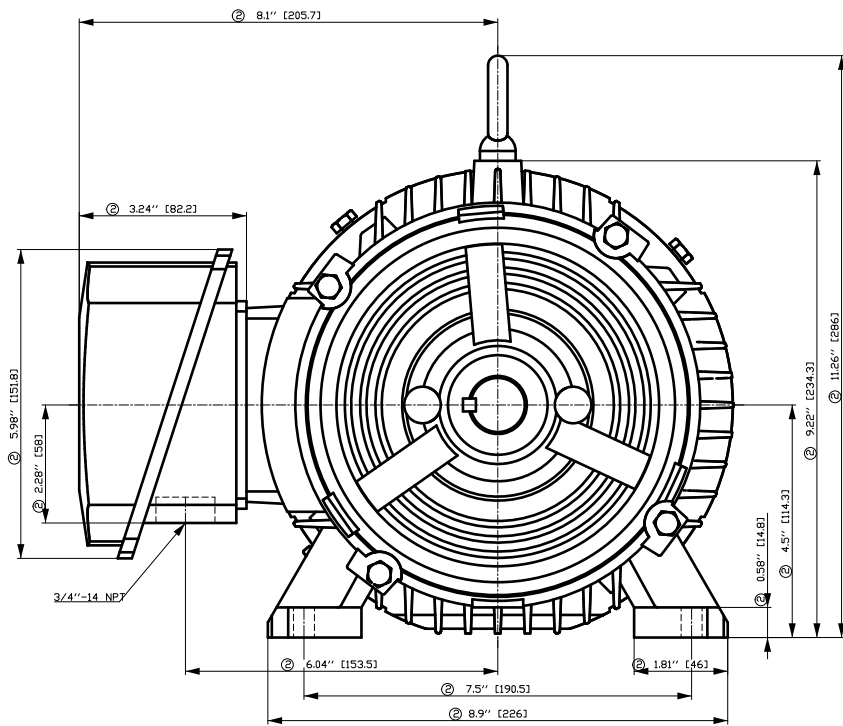
Motor type: SD100 IEEE FS: 184T - 4p - 5 hp -

Special design

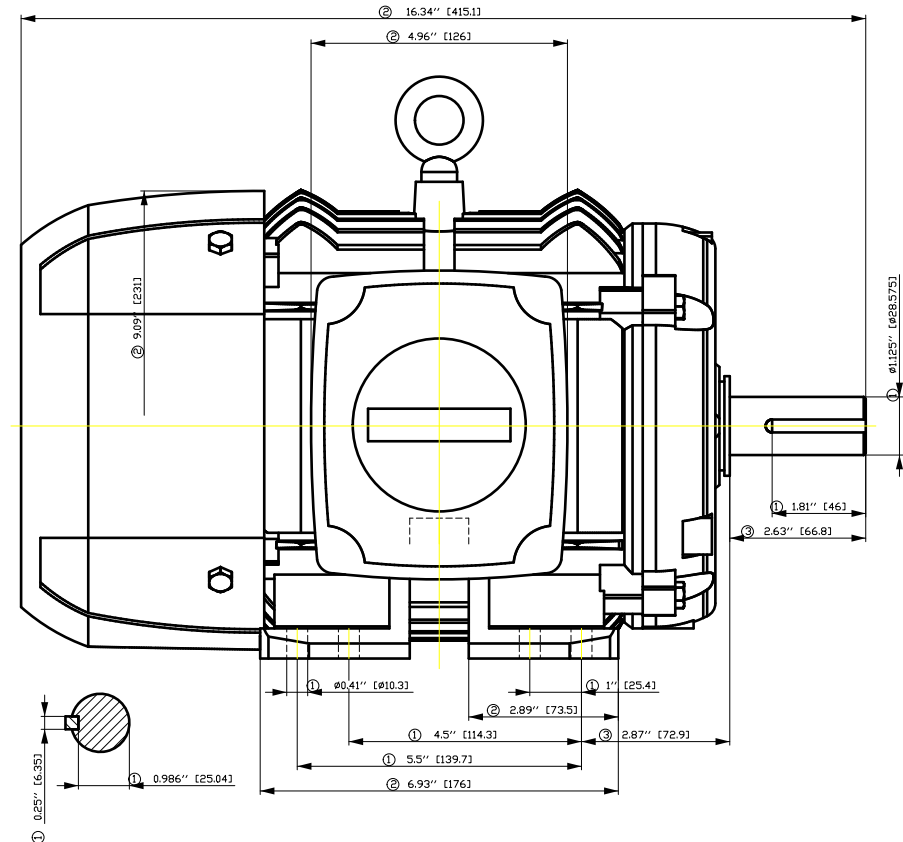
B09	Export packing sea freight - Siemens standard
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Notes:

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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.

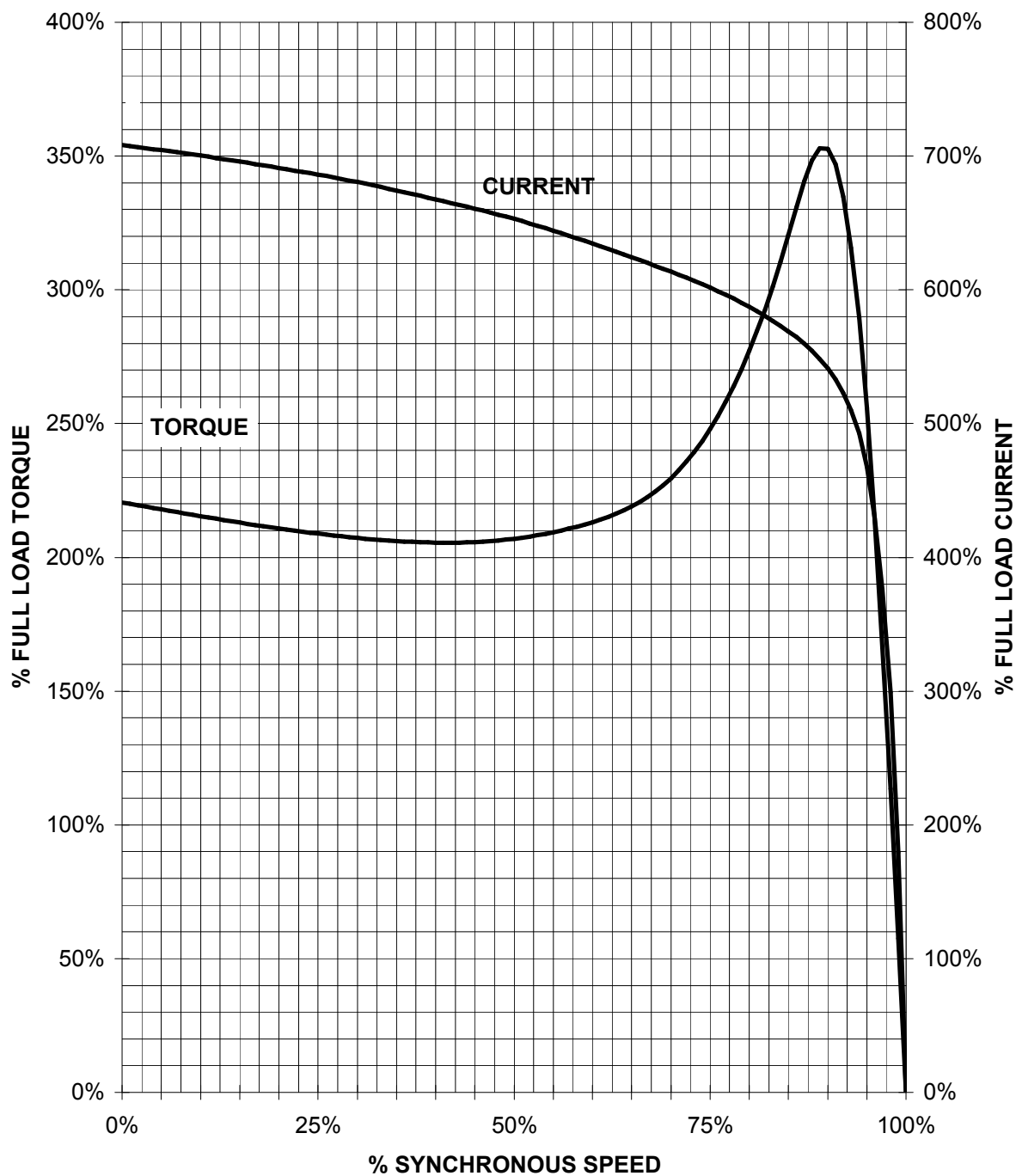


Tolerance	Surface	Material	Weight	Scale
1LE2421-1CB31-2AA3-Z B09	Author Creator Approval Department Change Order	Dimensional drawing Maßzeichnung		
SIEMENS © Siemens AG 2018	Doc. State	4/21/21	Item No	Paper Size A3
	Revision	Index RS	Doc No	1st Language en 2nd Language de
	Project No	-	Ref No	-
			Doc Type	Sheet 1 of 1

SIEMENS INDUSTRY, INC.

HP 5 VOLTS < 600V RPM 1800 TYPE SD100 IEEE841
HZ 60 PHASE 3 FRAME 184T NEMA B

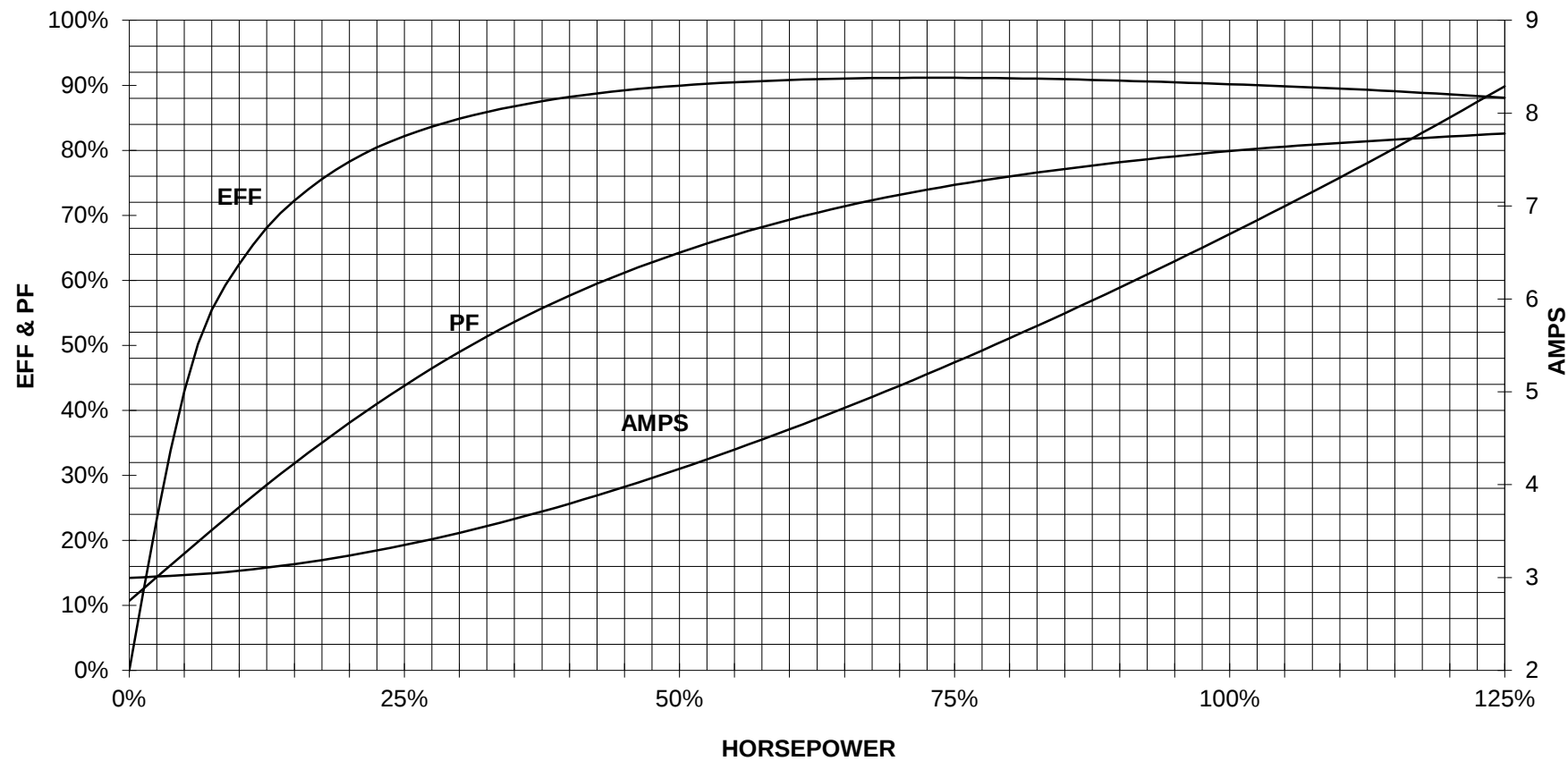
TORQUE & CURRENT VS. SPEED



CUSTOMER: ORDER#:

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

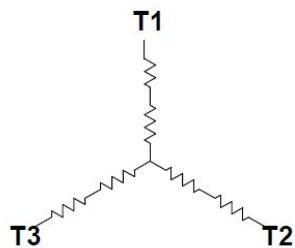
SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100 IEEE841



CUSTOMER _____ ORDER # _____ PO # _____

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

Main terminal diagram



3 LEAD WYE			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Y

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Wiring Diagram

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