

Data sheet for three-phase Squirrel-Cage-Motors

Totally Enclosed Fan Cooled (TEFC)



MLFB-Ordering data: **1LE2421-4CC21-2AA3**

Motor type: **SD100 IEEE841 - NEMA Premium Efficiency**

Client order no.:

Order no.:

Offer no.:

Remarks:

Item no.:

Consignment no.:

Project:

U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	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	4/4		3/4	1/2	4/4	3/4	1/2				
460	Δ	60	125.00	90.00	1,185	144.00	112.20	83.20	48.00	908.0	95.0	95.4	95.1	85.0	82.0	74.0	554.0	160	200	

Frame Type 445T	Type of constr.: (A) Foot mounted - End shield	Ins. Cl.: F	Motor Prot.: (A) Without Protection	NEMA Des.: B	S.F.: 1.15
Mtr WT: 1,766 lbs	Mounting: (3) F-1, Standard Floor Mount, T. Box LHS	Temp. Rise Cl.: B	Amb. Temp.: +40 to -20 °C @1000 m	kVA: G	IP55

Mechanical data

WK2

Rotor Moment of Inertia:	58	Lb-ft ²
Ext Load Inertia Capability:	1450.0	Lb-ft ²

Safe Stall Time

Hot:	25.0	s
Cold:	35.0	s

Typical Noise Data

A-weighted Sound		
Sound Pressure:	77.0	dB(A)
Sound Power:	66.0	dB(A)

Octave Band Center Frequencies Hertz

	250	500	1000	2000	4000	8000	Hz
SPL@3 feet	58.0	61.0	61.0	59.0	56.0	41.0	dB(A)

Bearings

	DE	NDE
Bearing size:	NU 318	6316 Z C3 S0
Bearing Type:	Roller Bearing	Ball Bearing
AFBMA:	90RU03M0	80BC03JP30

Grease

Capacity:	14.50	oz	7.50	oz
Type:	Exxon Mobile EM			
Thickener:	Polyurea			

Frame

Frame material:	cast iron
Coating (paint finish):	Standard Paint
Color, paint shade:	RAL 7030

Terminal box

Terminal box position:	(3) F-1, Standard Floor Mount, T. Box LHS
------------------------	---

Lead Wire Connection

Description:	6 LEAD - DELTA				
Voltage	L1	L2	L3	Connected together	
---	---	---	---	---	-
---	T1	T2	T3	---	Δ

Ventilation Type

Type of Cooling:	TEFC
Fan Material:	Polypropylen ESD
Fan Rotation:	Bidirectional

Additional information

VFD Operation:	CT: 4:1	VT: 20:1
Area: classification:	Class I Division 2 Gr. A, B, C or D	

Notes

I_A/I_N = locked rotor current / current nominal T_k/T_N = break down torque / nominal torque
 T_A/T_N = locked rotor torque / torque nominal ¹⁾ Value is valid only for DOL operation with motor design IC411

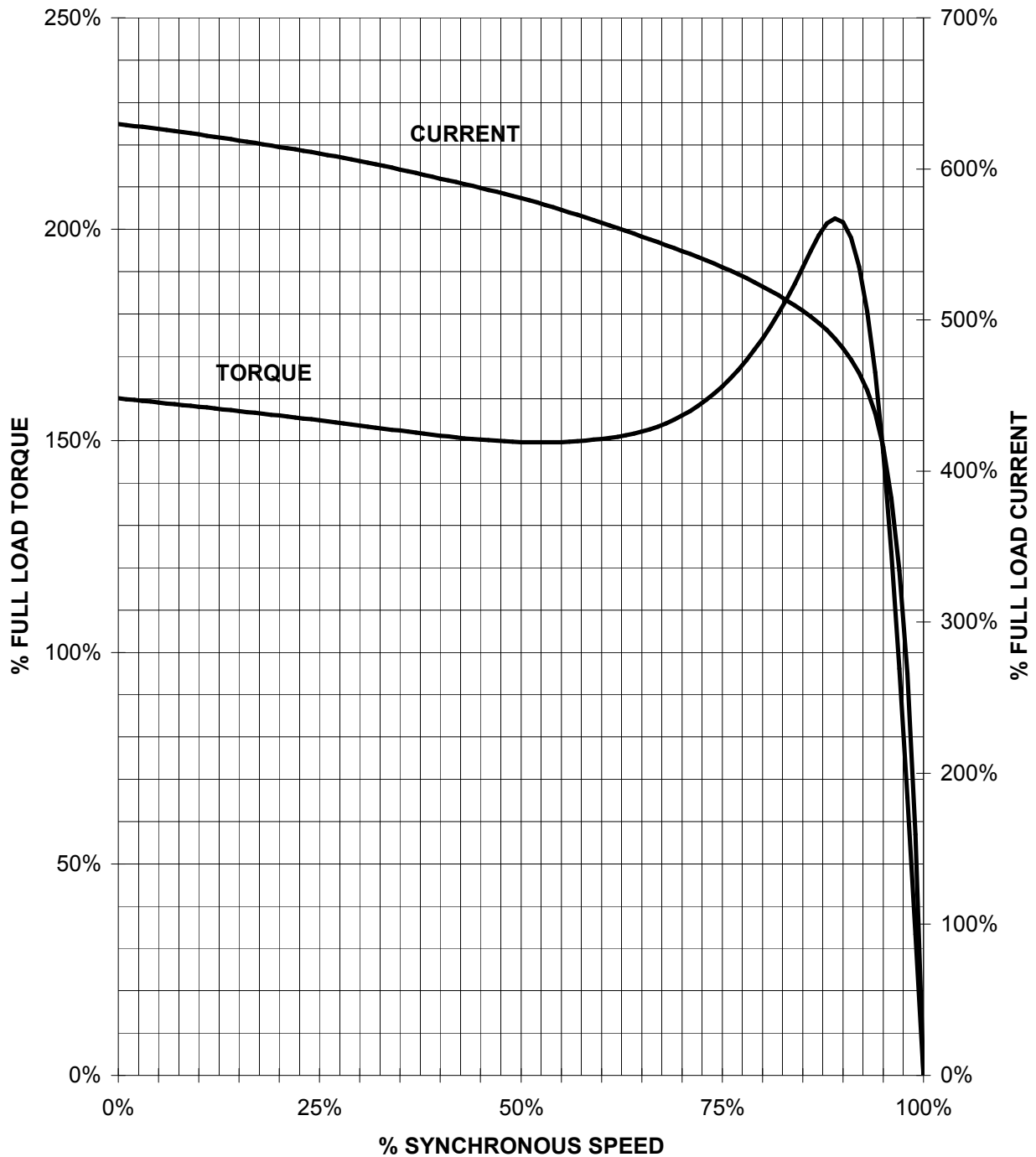
Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

Generated:
2020-07-06 20:37

SIEMENS INDUSTRY, INC.

HP 125 VOLTS < 600V RPM 1200 TYPE SD100 IEEE841
HZ 60 PHASE 3 FRAME 445T NEMA B

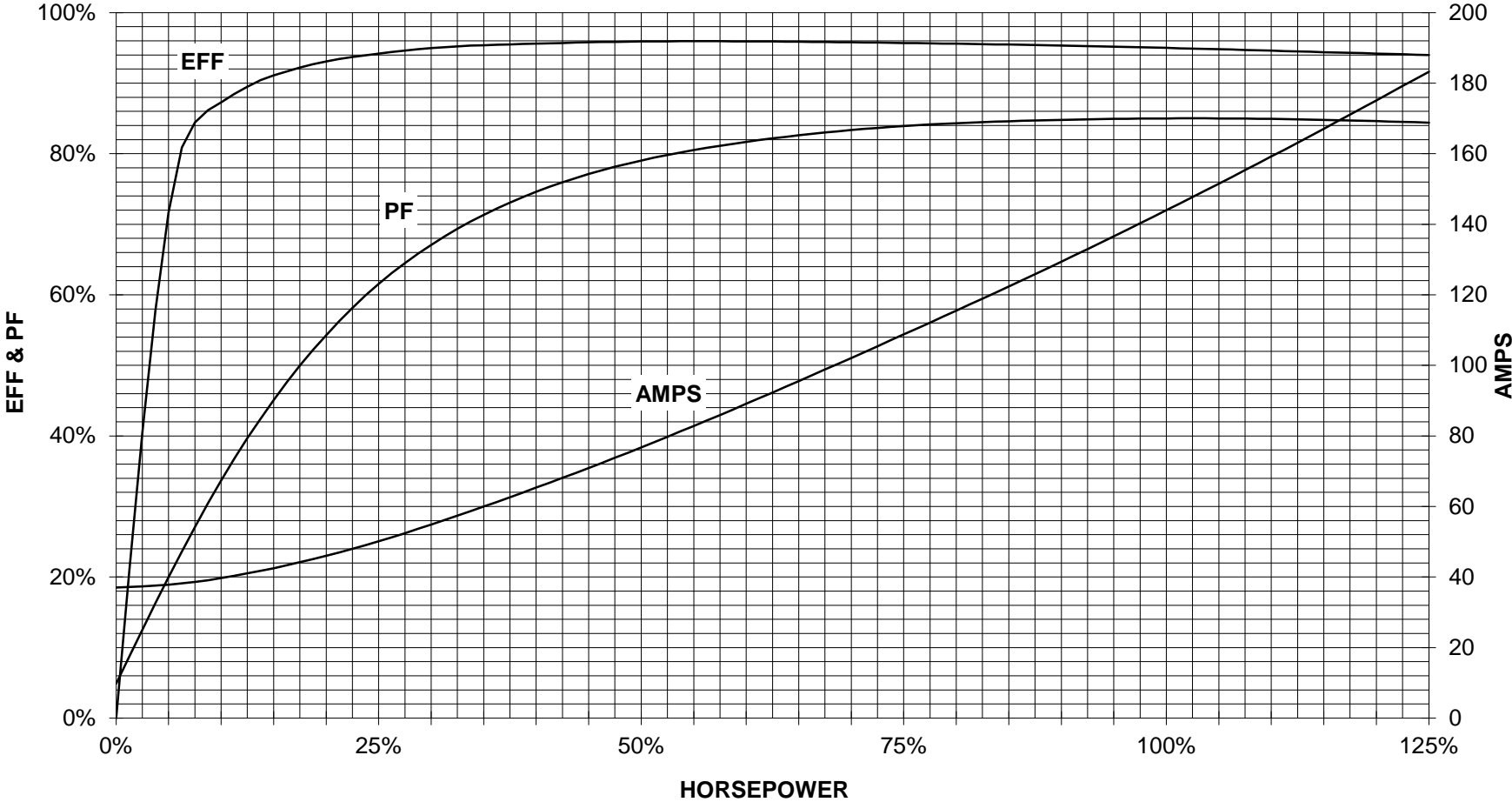
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

125 HP 1200 RPM 445T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

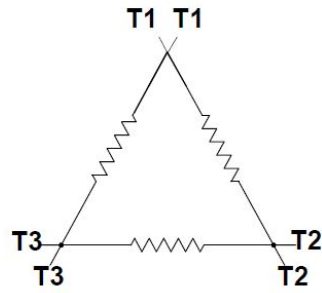
SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100 IEEE841




CUSTOMER _____ ORDER # _____ PO # _____

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

Main terminal diagram



6 LEAD DELTA			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Δ

responsible dep. DI MC LVM	technical reference	created by	approved by	project		
	document type Wiring Diagram		document status free		customer	
	title 1LE2421-4CC21-2AA3		document number			
© Siemens AG 2019			rev. 01	creation date 12/03/2019	language en/en	Page 1/1