

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

Motor type: GP100 FS: 256T - 4p - 20 hp -

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project
Remarks		

Electrical data without

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	T _k /T _N
						4/4	3/4	1/2	0	4/4		3/4	2/4	4/4	3/4	2/4	LRT [%]		BDT [%]	
460	Y	60	20.00	15.00	1,770	25.00	19.80	15.40	10.50	145.0	93.0	93.4	93.1	80.5	75.9	65.3	60.0	183	240	
230	YY	60	20.00	15.00	1,770	50.00	39.62	30.80	21.00	290.0	93.0	93.4	93.1	80.5	75.9	65.3	60.0	183	240	
400	Y	50	15.00		1,475	21.30	18.60	15.50	12.60	168.5	91.5	91.3	90.3	81.4	70.2	56.8	53.4	299	348	
200	YY	50	15.00		1,475	42.60	37.20	31.00	25.20	337.0	91.5	91.3	90.3	81.4	70.2	56.8	53.4	299	348	
Frame Type: 256T			Type of constr.: (A) Foot mounted - End shield									Motor Prot.:(A) Without Protection					NEMA Des.: B		S.F.: 1.15	
Mtr. WT:266 lbs			Insulation Class.:Standard Class F Insulation						Temp. Rise Cl.: B			Amb. Temp.: + 40 to -20 °C @1000 m					kVA: G		IP 55	

Mechanical data

Sound level (SPL / SWL) at 60 Hz								61.0 dB(A) / 73.0 dB(A)								Thickener								Polyurea																																																							
Octave Band Center Frequencies Hertz																Safe Stall Time Hot								15 s																																																							
250								500								1000								2000								4000								8000								Hz								Safe Stall Time Cold								33 s															
SPL@3								47.0								53.0								59.0								56.0								47.0								38.0								dB(A)								Frame material								cast iron							
Moment of inertia																2.1 Lb-ft²								Color, paint shade								Standard Paint - RAL7030																																															
Ext Load Inertia Capability:																99.0 Lb ft²								Coating (paint finish)								Standard Alkyed + Epoxy (C2)																																															
Bearings																Ventilation Type																																																															
Bearing DE NDE								6209 ZZ C3 S0								6209 ZZ C3 S0								Method of cooling								TEFC																																															
Bearing_Type								Ball Bearing								Ball Bearing								Direction of rotation								Bidirectional																																															
AFBMA:								45BC02JPP30								45BC02JPP30								Fan Material								Polypropylen																																															
Grease																VFD																CT: 4:1 VT: 20:1																																															
Capacity								0.5 oz								0.5 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	L2	L3	Connected together		Material of terminal box		Aluminium		
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6		Cable entry		1.25" NPT		
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9						

Notes:

I_L/I_N = locked rotor current / current nominal

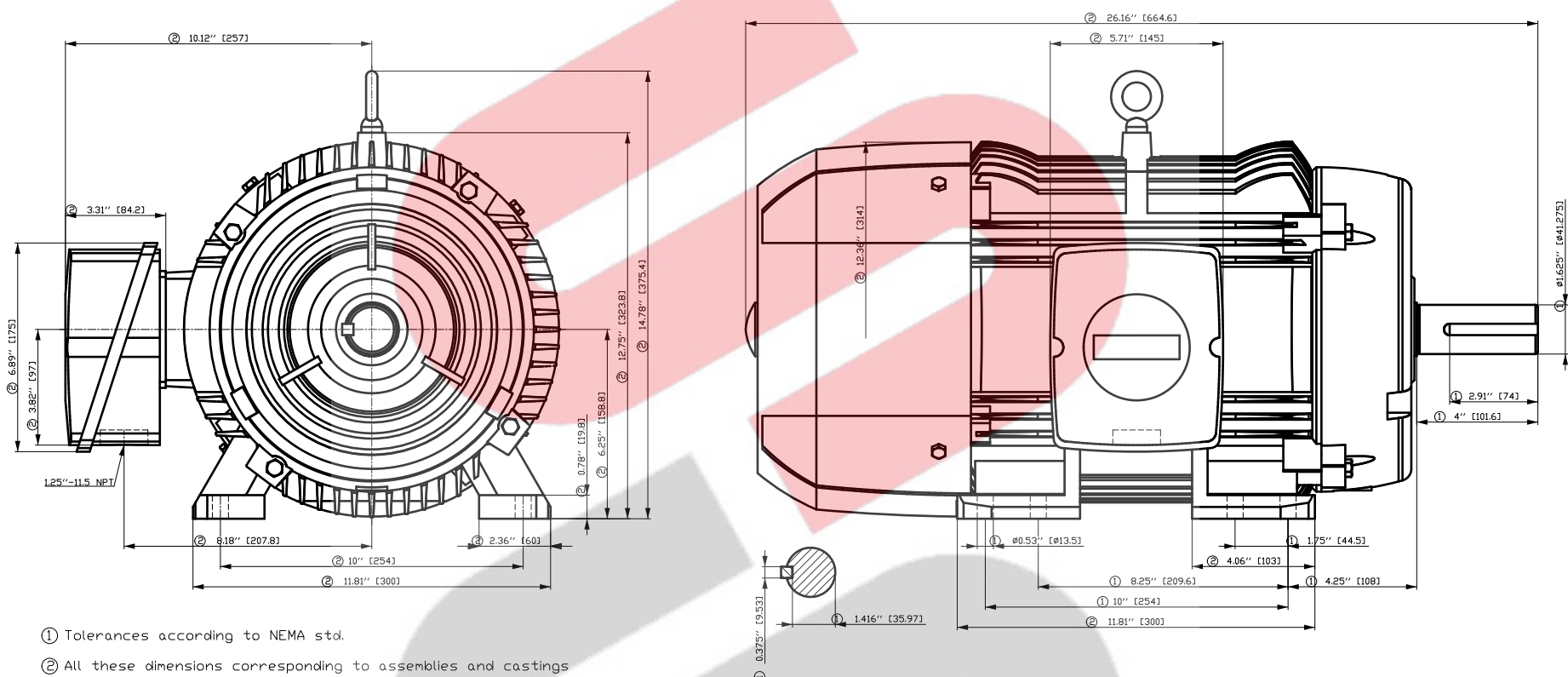
M_L/M_N = locked rotor torque / torque nominal

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

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between datasheet and motor nameplate			
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	© ABB 2023				rev. 01	creation date 2023-06-16 18:05	language en



- 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.

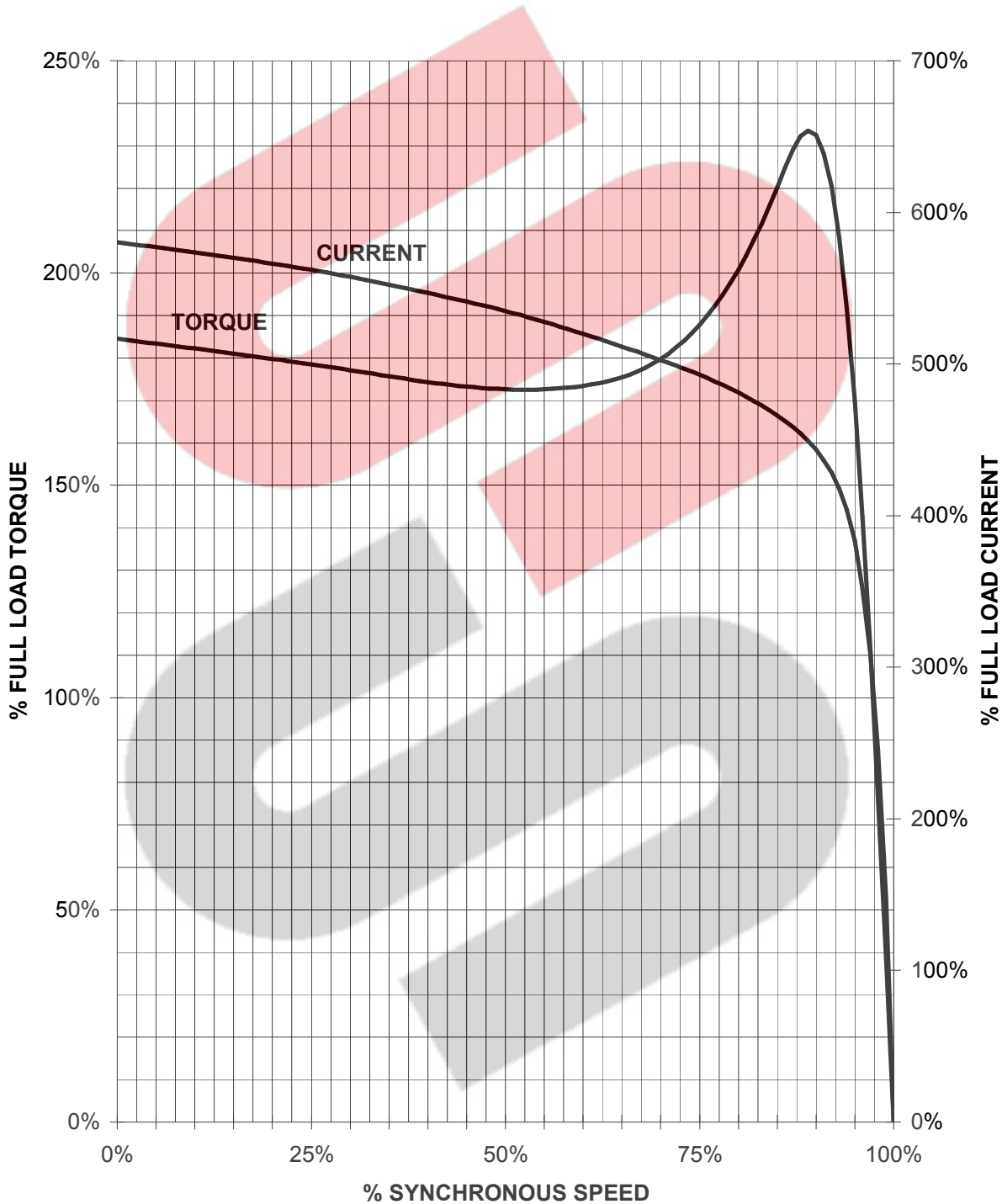
Technische Änderungen vorbehalten!
Technical data are subject to change!

Tolerance	Surface	Material	Weight	Scale
1LE2221-2BB21-4AA3	Author Creator Approval Department Change Order	Dimensional drawing Maßzeichnung		
-	DTK			
	Doc. State Revision	MLFB Item No Doc No	Doc Type Paper Size	A3
	Index RS	2nd Language de	1st Language en	de
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SIEMENS INDUSTRY, INC.

HP 20 VOLTS < 600V RPM 1800 TYPE GP100
HZ 60 PHASE 3 FRAME 256T NEMA B

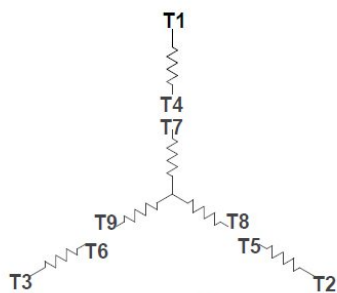
TORQUE & CURRENT VS. SPEED



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

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Project

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document type

Wiring Diagram

title

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document status

free

document number

customer