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

Motor type: **FS: 254TC - 4p - 15 hp -**

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

Electrical data

Class I Division 1 Groups 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		60	15.00	-/-	1,770	19.00	15.20	11.80	8.50	116.0	92.4	92.8	92.3	80.0	74.7	64.5	44.0	184	234
230		60	15.00	-/-	1,770	38.00					92.4	92.8	92.3	80.0	74.7	64.5	44.0	184	234

Frame Type: 254TC	Type of constr.: (G) Round body - C-Face	Ins. Cl.:Insulation class F	Motor Prot.:(A) No winding protection	NEMA Des.: B	S.F.: 1.15
Mtr. WT:315		Temp. Rise Cl.: B	Amb. Temp.: + to -20 °C @1000 m	kVA: G	IP IP65

Mechanical data

Sound level (SPL / SWL) at 60 Hz	61.0 dB(A) / 73.0 dB(A)

Octave Band Center Frequencies Hertz							
	250	500	1000	2000	4000	8000	Hz
SPL@3							dB(A)

Moment of inertia	1.7 Lb-ft²
Ext Load Inertia Capability:	75.0 Lb ft²

Bearings

Bearing DE | NDE	6309 Z C3 S0	6309 Z C3 S0
Bearing_Type	Ball Bearing	Ball Bearing
AFBMA:	45BC03JP30	45BC03JP30

Grease

Capacity	0.5 oz	0.5 oz
Grease Type:	Exxon Mobile EM	

Thickener	Polyurea
Safe Stall Time Hot	21 s
Safe Stall Time Cold	33 s
Frame material	cast iron
Color, paint shade	
Coating (paint finish)	
Ventilation Type	
Method of cooling	TEFC
Direction of rotation	Bidirectional
Fan Material	Polypropylen ESD
VFD	CT: 4:1 VT: 20:1
Space heaters	without
Brake:	-/-

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) Mounting - F-1
Material of terminal box	
Cable entry	-/-

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*

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document type	document status	customer	
datasheet	released		
title	document number		
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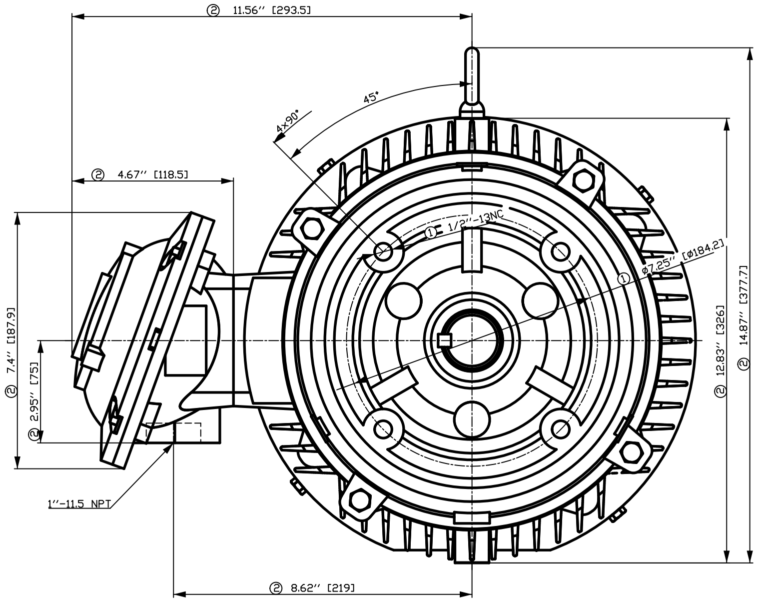
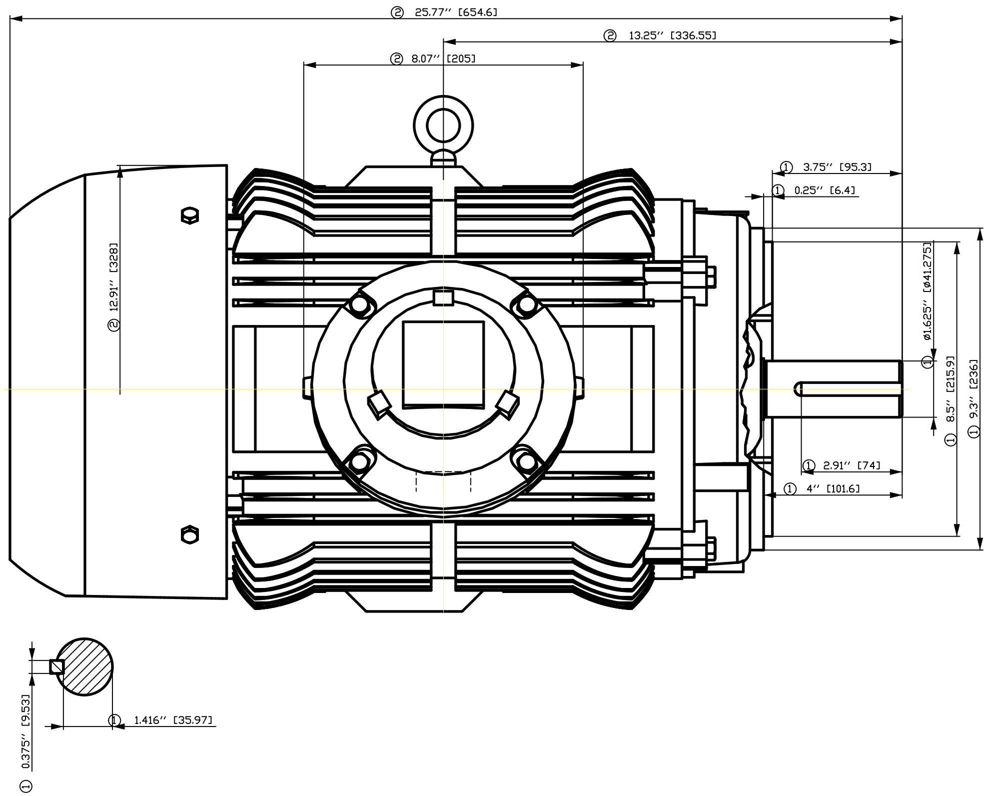
	01	2022-04-08 20:24	en / 1/1





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
1MB2221-2BB11-6GA3 -	Author	Dimensional drawing MaÇzeichnung		
	Creator DTK			
	Approval			
	Department			
	Change Order	MLFB	Doc Type /	
SIEMENS	Doc State 4/8/22	Item No	Paper Size A3	
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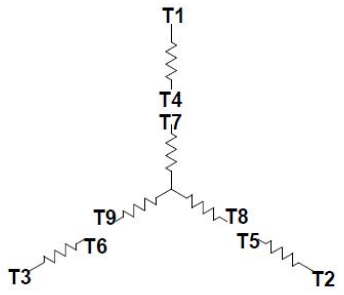
Main terminal diagram



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 1MB2221-2BB11-6GA3		document number		
			rev. 01	creation date 12/03/2019	language en / Page 1/1

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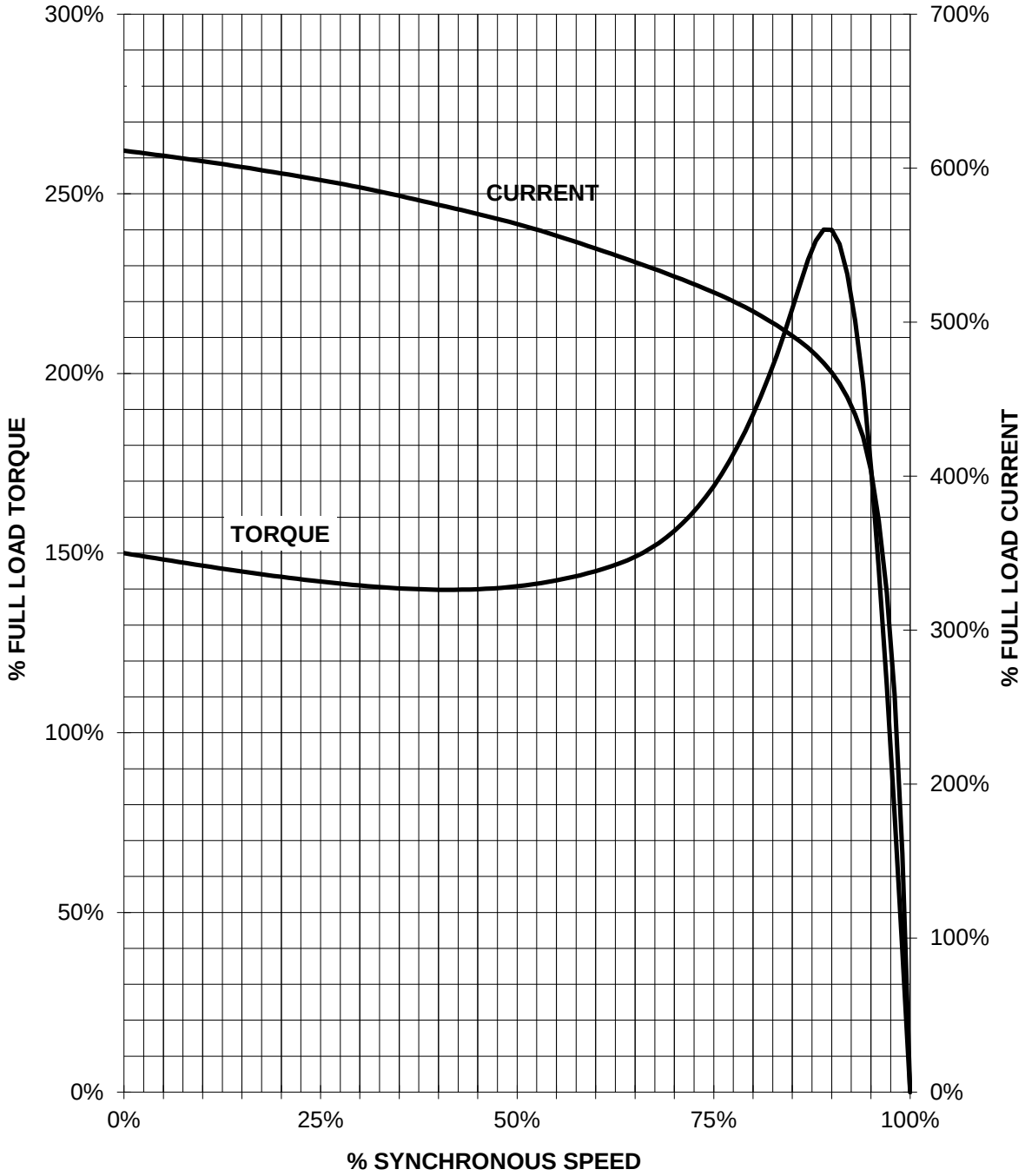
HP	15	VOLTS	<600	RPM	1800	TYPE	XP100 1D1
HZ	60	PHASE	3	FRAME	254T	NEMA	B

TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

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REV. 1