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

Motor type: **FS: 182TCV - 8p - 1 hp -**

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

Electrical data

Class I, Div 1 Gr. C&D; Class II, Div1, Gr. F&G

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	1.00	-/-	870	2.10	1.90	1.70	1.50	9.0	81.5	80.0	77.0	56.0	47.0	36.0	8.0	138	250
230		60	1.00	-/-	870	4.20					81.5	80.0	77.0	56.0	47.0	36.0	8.0	138	250

Frame Type: 182TCV	Type of constr.: (L) Round body - C-Face w/drip cover + hooks	Ins. Cl.:Insulation class F	Motor Prot.:(G) Thermostats, Klixon type, normally closed	NEMA Des.: B	S.F.: 1.15
Mtr. WT:105		Temp. Rise Cl.: B	Amb. Temp.: + to -20 °C @1000 m	kVA: J	IP IP65

Mechanical data

Sound level (SPL / SWL) at 60 Hz	54.0 dB(A) / 63.0 dB(A)

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

Moment of inertia	0.2 Lb-ft²
Ext Load Inertia Capability:	31.0 Lb ft²

Bearings

Bearing DE | NDE	6206 Z C3 S0	6206 Z C3 S0
Bearing_Type	Ball Bearing	Ball Bearing
AFBMA:	30BC02JP30	30BC02JP30

Grease

Capacity	0.2 oz	0.2 oz
Grease Type:	Exxon Mobile EM	

Thickener	Polyurea
Safe Stall Time Hot	50 s
Safe Stall Time Cold	68 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***

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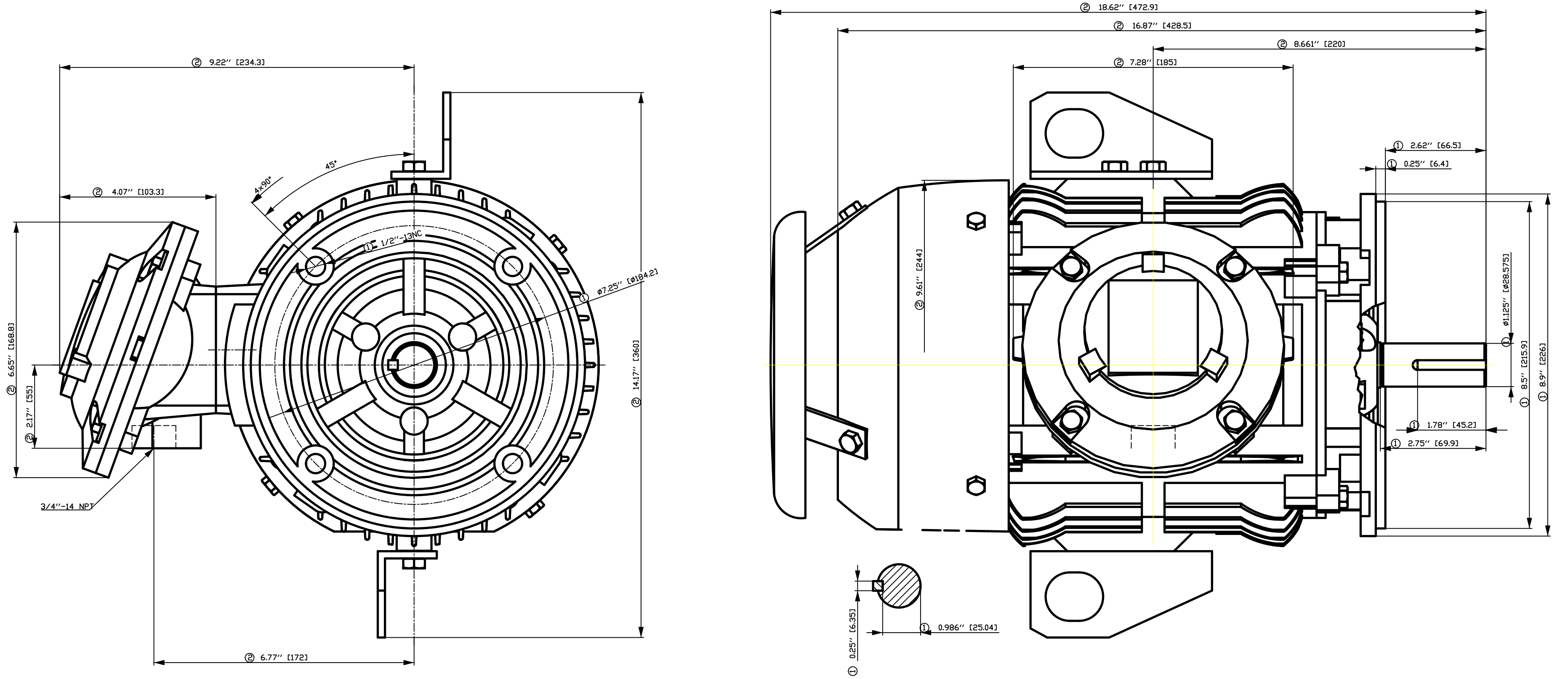

① Tolerances according to NEMA std.

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
			-	mm
1MB2121-1CD11-6LG3 -	Author / Creator: DTK / Approval / Department	Dimensional drawing MaÇzeichnung		
	Change Order	MLFB	Doc Type	
SIEMENS	Doc State: 4/8/22	Item No	Paper Size: A3	
	Revision / Index / RS	Doc No	1st Language: en 2nd Language: de	
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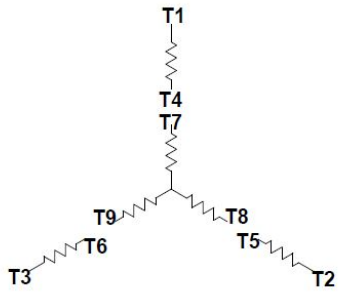
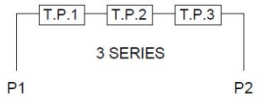
Main terminal diagram



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

Motor protection

THERMOSTATS



responsible dep.	technical reference	created by	approved by	Project			
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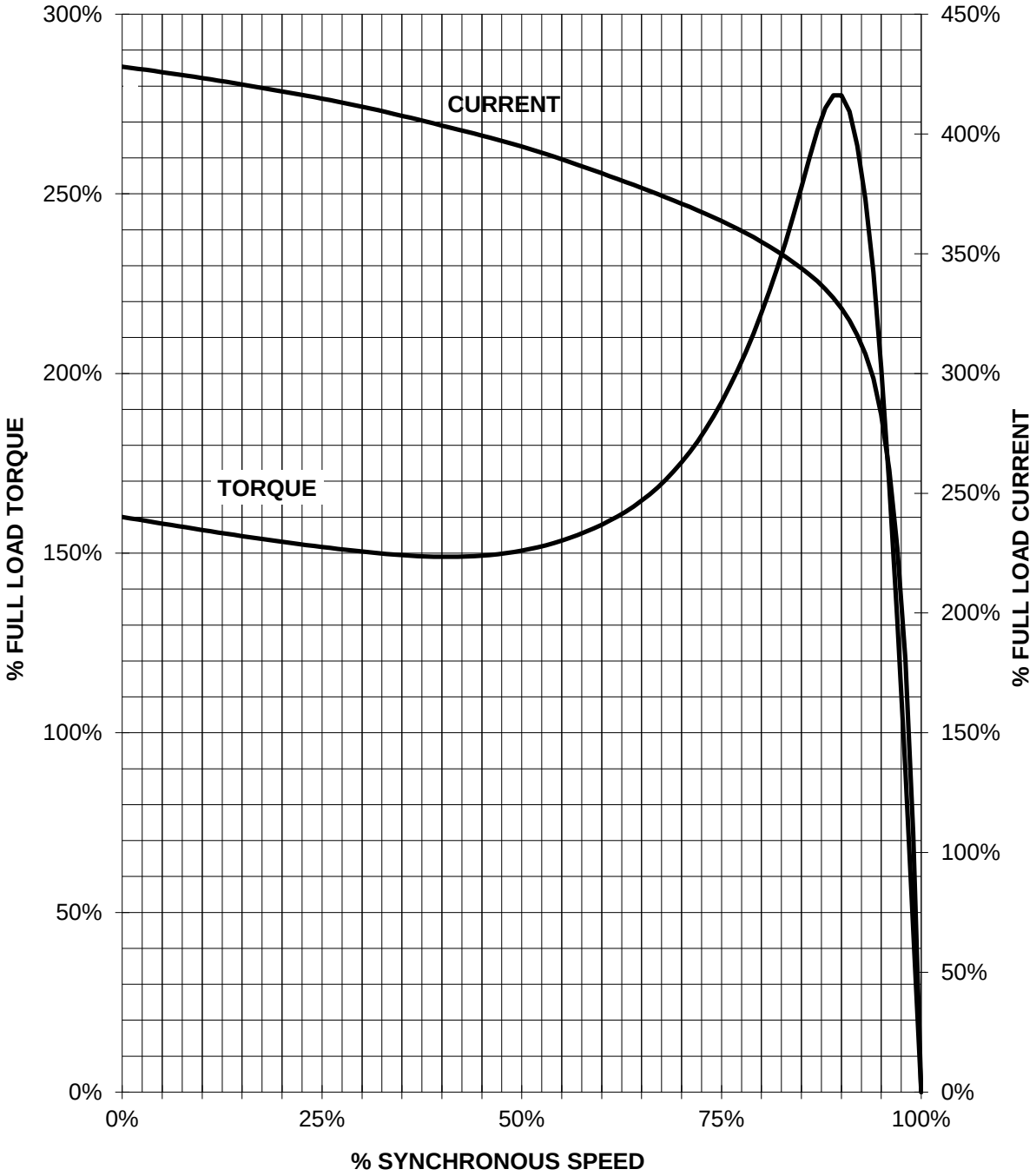
HP	1	VOLTS	<600	RPM	900	TYPE	XP100
HZ	60	PHASE	3	FRAME	182T	NEMA	B

TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

PERFORMANCE BASED ON DESIGN CALCULATIONS. SUBJECT TO CHANGE WITHOUT NOTICE.
REV. 1