

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

**Motor type:** FS: 256TCV - 8p - 7.5 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]	$\Delta/Y$	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque [lb-ft]	T <sub>A</sub> /T <sub>N</sub> LRT [%]	T <sub>k</sub> /T <sub>N</sub> BDT [%]
						4/4	3/4	1/2	0	4/4		3/4	2/4	4/4	3/4	2/4				
460		60	7.50	-/-	875	12.50	997.50	1009.00	7.90	50.0	87.5	88.0	87.0	0.6	0.6	0.4	61.0	166	200	
230		60	7.50	-/-	875	25.00					87.5	88.0	87.0	0.6	0.6	0.4	61.0	166	200	

Frame Type: 256TCV	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:300		Temp. Rise Cl.: B	Amb. Temp.: + to -20 °C @1000 m	kVA: G	IP IP65

## Mechanical data

Sound level (SPL / SWL) at 60 Hz	67.0 dB(A) / 75.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz	250 500 1000 2000 4000 8000 Hz	Safe Stall Time Hot	50 s
SPL@3		Safe Stall Time Cold	100 s
Moment of inertia	1.8 Lb-ft <sup>2</sup>	Frame material	cast iron
Ext Load Inertia Capability:	208.0 Lb ft <sup>2</sup>	Color, paint shade	
<b>Bearings</b>		Coating (paint finish)	
Bearing DE   NDE	6309 Z C3 S0   6309 Z C3 S0	<b>Ventilation Type</b>	
Bearing_Type	Ball Bearing   Ball Bearing	Method of cooling	TEFC
AFBMA:	45BC03JP30   45BC03JP30	Direction of rotation	Bidirectional
<b>Grease</b>		Fan Material	Polypropylen ESD
Capacity	0.5 oz   0.5 oz	VFD	CT: 4:1 VT: 20:1
Grease Type:	Exxon Mobile EM	Space heaters	without
		Brake:	-/-


## Terminal box

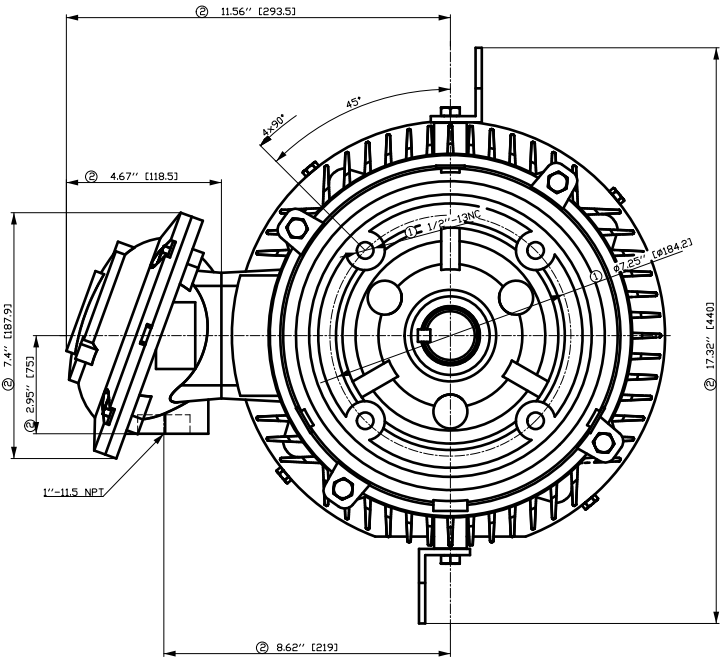
Lead Wire Connection	9 LEAD - WYE	Terminal box position	(3) Mounting - F-1
Voltage	L1 L1 L1 Connected together	Material of terminal box	
LOW	T1 T7 T2 T8 T3 T9 T4 T5 T6	Cable entry	-/-
HIGH	T1 T2 T3 T4 T7-T5 T8-T6 T9		

### Notes:

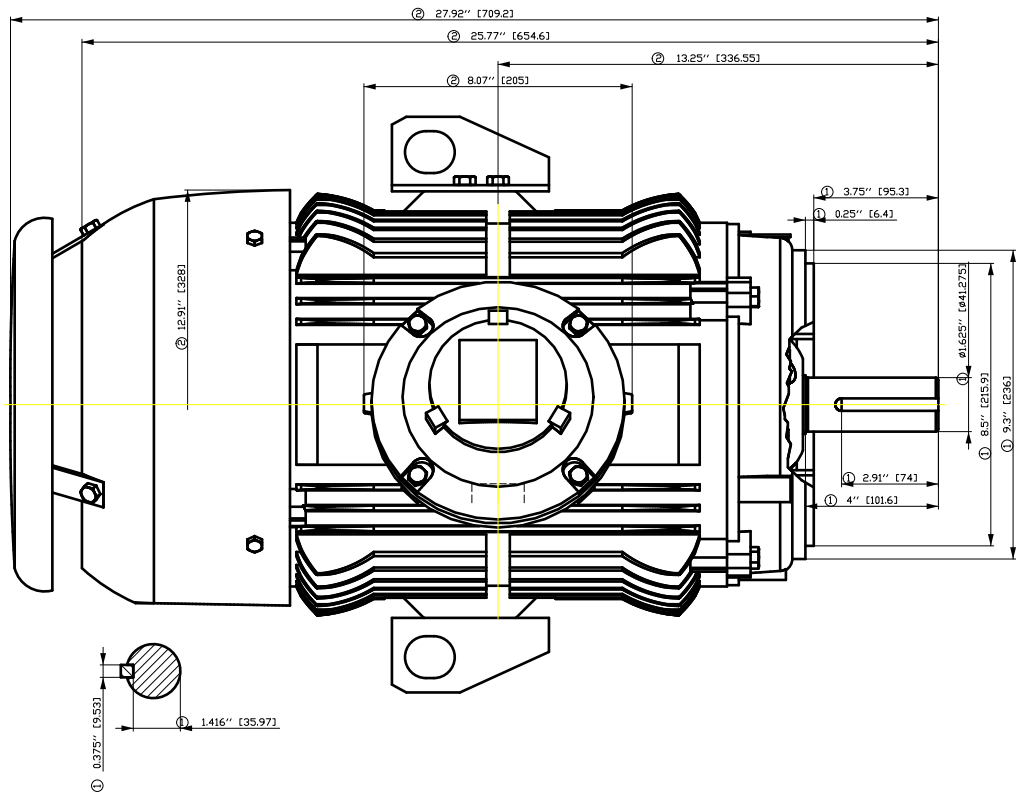
I<sub>r</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>r</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>b</sub>/M<sub>N</sub> = break down torque / nominal torque  
3) Value is valid only for DOL operation with motor design IC411  
2) at rated power / at full load

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between software and hardware versions</i>
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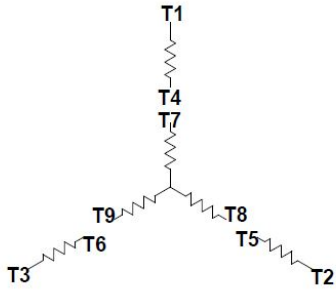


- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.



Tolerance	Surface	Material	Weight	Scale
FT ÖGF-ESÖGF-ESÖH	Author	ÖV	Weight	Scale
É	Creator	ÖVS	Weight	Scale
	Approval	T a : ^ @ } *	Weight	Scale
	Department		Weight	Scale
	Change Order	MFB	Weight	Scale
	Doc. State	I ð BGG	Weight	Scale
	Revision	Index RS	Weight	Scale
© Siemens AG 2018	Project No	É	Weight	Scale
	Ref No	É	Weight	Scale
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	Paper Size	CH	Weight	Scale
	1st Language	^	Weight	Scale
	2nd Language	â	Weight	Scale
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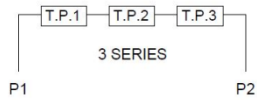
Main terminal diagram



9 LEAD WYE						
Volts	LINES			CONNECTED TOGETHER	CONN.	
	L1	L2	L3			
LOW	T1 T7	T2 T6	T3 T9	T4 T5 T6	YY	
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y	

Motor protection

THERMOSTATS



responsible dep.  
DI MC LVM

technical reference

created by

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Project

**SIEMENS**

document type  
Wiring Diagram

title  
1MB2121-2BD21-6LG3

document status  
free

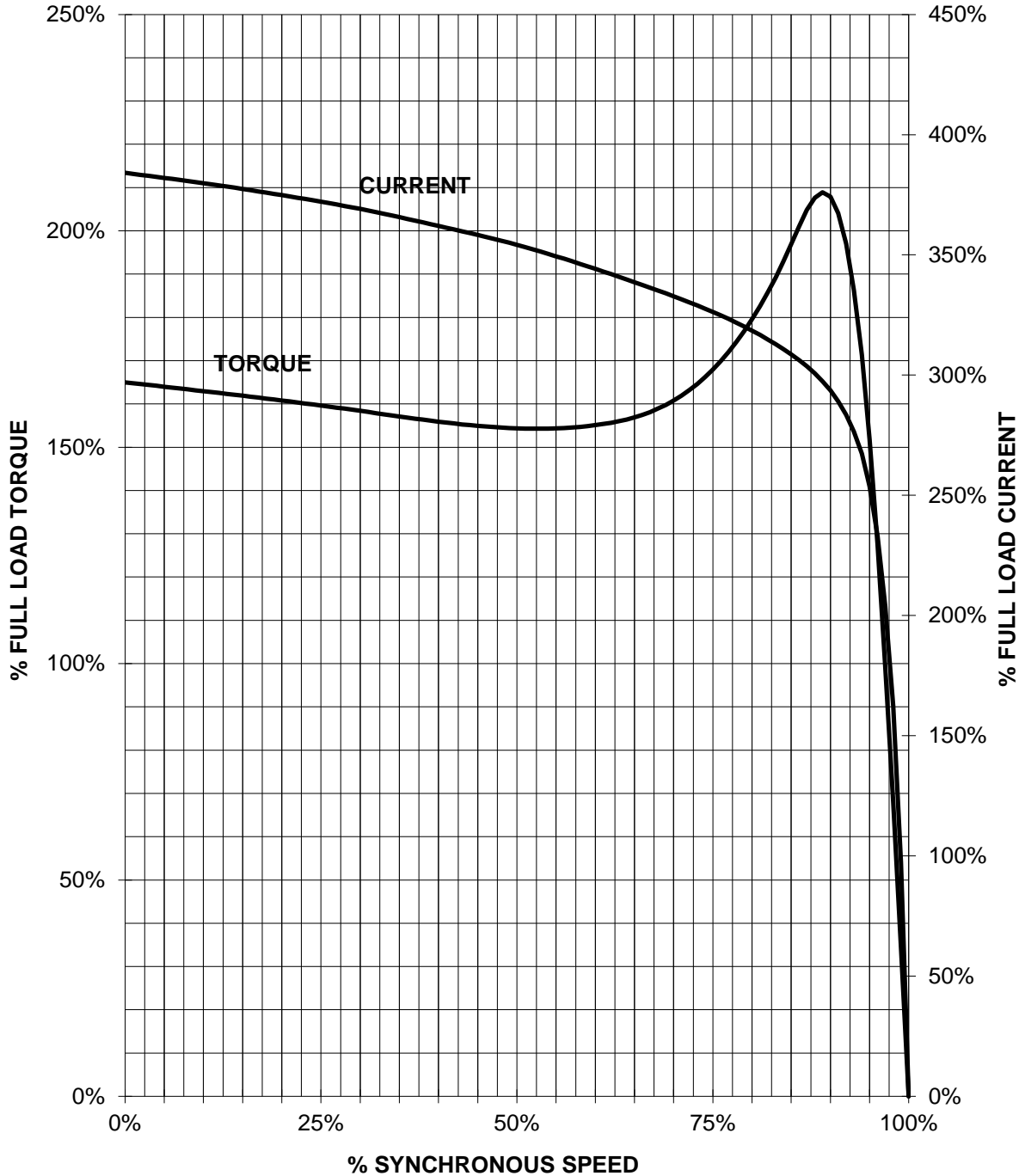
document number

customer

# SIEMENS INDUSTRY, INC.

HP 7,5 VOLTS <600 RPM 900 TYPE XP100  
HZ 60 PHASE 3 FRAME 256T NEMA B

## TORQUE & CURRENT VS. SPEED



CUSTOMER: \_\_\_\_\_ ORDER#: \_\_\_\_\_