

TOSHIBA

Issued Date 12/9/2016	Transmit #	
Issued By Yu Wenhao	Issued Rev	

TYPICAL MOTOR PERFORMANCE DATA

Model: PM25

kW	Pole	r/min	Frame	BEMF K _E Volt. (V)	Hz	Phase	I _N Amps (A)
5.5	6	4500	90L	288	225	3	11.5
IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
55	F		S1	92.6			40

Load		kW	Amperes (A)	Efficiency (%)
		NVV		
Full Load		5.5	11.5	92.6
¾ Load		4.13	8.84	91.6
½ Load		2.75	6.22	89.2
¼ Load		1.38	3.37	81.9
No Load			1.19	
	1			

Torque				
Full Load			Breakdown	Inertia
(N-m)			(% FLT)	(kg-m²)
12.1			260	0.004

Sound Pressure		Bearin	Bearings*		
	dB(A) @ 1M	DE	NDE	(kg)	
	73	6205-2Z/C3	6204-2Z/C3	15	

*Bearings are the only recommended spare part(s).

Motor Options:

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values. The declared locked rotor current has a tolerance of 20%.

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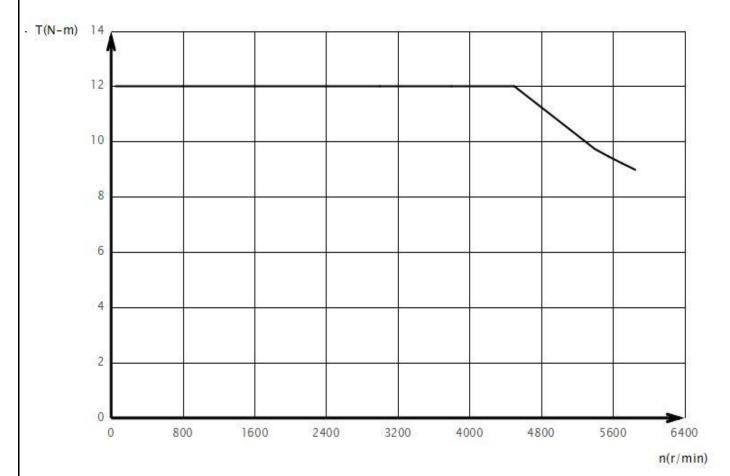
SPEED TORQUE/CURRENT CURVE

Model: PM25

kW	Pole	r/min	Frame	BEMF K _E Volt. (V)	Hz	Phase	I _N Amps (A)
5.5	6	4500	90L	288	225	3	11.5
IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
55	F		S1	92.6			40
Rotor wk ²				Torque			
Inertia	Full Load					Break	down
(kg-m²)	(N-m)					(%	%)
0.004	12.1					20	60

CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase synchronous motor



Customer	wk² Load Inertia (kg-m²)	
Customer PO	Load Type	CONT
Sales Order	Voltage (%)	
Project #	Accel. Time	10-15S

Tag:

All characteristics are average expected values. The declared locked rotor current has a tolerance of 20%.

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SPARE PARTS LIST*

Model: PM25

kW	Pole	r/min	Frame	BEMF K _E Volt. (V)	Hz	Phase	I _N Amps (A)
5.5	6	4500	90L	288	225	3	11.5
IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
55	F		S1	92.6			40

 DE Bearing:
 6205-2Z/C3

 NDE Bearing:
 6204-2Z/C3

*Bearings are the only recommended spare part(s).

Other than the grease used for regreasable bearings and the oil used for oil-lubricated bearings, Toshiba advises that there are no "use" parts. The only insurance spares that Toshiba suggests for these squirrel-cage induction motors are industry-standard and commercially available off-the-shelf bearings as noted above.

Motor components such as terminal boxes, fan covers and other machined parts are available on special request. In these cases, please advise our order entry department of the model and serial numbers found on the motor nameplate and a description of the needed components. With this information they will be able to furnish the current part number, price and availability.

Note: Our internal part numbers are subject to change without notice and are not published.

Customer	
Customer PO	
Sales Order	
Project #	
Tag:	

All characteristics are average expected values.

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NAMEPLATE DATA

Model: PM25

kW	Pole	r/min	Frame	BEMF K _E Volt. (V)	Hz	Phase	I _N Amps (A)
5.5	6	4500	90L	288	225	3	11.5
IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
55	F		S1	92.6			40

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Drive End Bearing: 6205-2Z/C3

Non-Drive End Bearing: 6204-2Z/C3

Rated Torque: 12.1 Nm

Torque Constant (Kt): 1.05 Nm/A

0.613

BEMF at: 4500 r/min

Comments 1:

Voltage Constant (Ke):

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

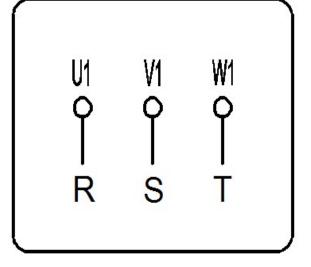
All characteristics are average expected values.

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TOSHIBA

Motor Connection Diagrams



By: Du Jiushi Date: 2016-12-8 checked:Chang Jungu date:2016-12-8 Revision 0