

**TOSHIBA** 

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

## **TYPICAL MOTOR PERFORMANCE DATA**

Model: PM7

kW	Pole	r/min	Frame	BEMF K <sub>E</sub> Volt. (V)	Hz	Phase	I <sub>N</sub> Amps (A)
1.1	6	3600	71M	273.5	180	3	2.3
IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
55	F		S1	90.0			40

Load	kW	Amperes (A)	Efficiency (%)
Full Load	1.10	2.29	90.0
¾ Load	0.83	1.83	89.1
½ Load	0.55	1.27	86.5
¼ Load	0.28	0.71	78.5
No Load		0.33	

Torque				
Full Load			Breakdown	Inertia
(N-m)			(% FLT)	(kg-m²)
2.94			260	0.00064

Sound Pressure		Bearin	Bearings*		
	dB(A) @ 1M	DE	NDE	(kg)	
	66	6202-2RS	6202-2RS	6	

\*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%.

	CORPORATION · HOUSTON.	TEVACILOA
IOSHIBA INTERNATIONAL	CORPORATION - HOUSTON	1 F X A S U S A

TOSHIBA INTERNATIONAL CORFORATION - HOOSTON, TEXAS 0.5.A.						
Engineering	Doc. Written By	P. Anderson	Doc.# / Rev	MPCF-1190 / 0		
Engr. Date	Doc. Approved By	PAA	Doc. Issued	12/6/2016		



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

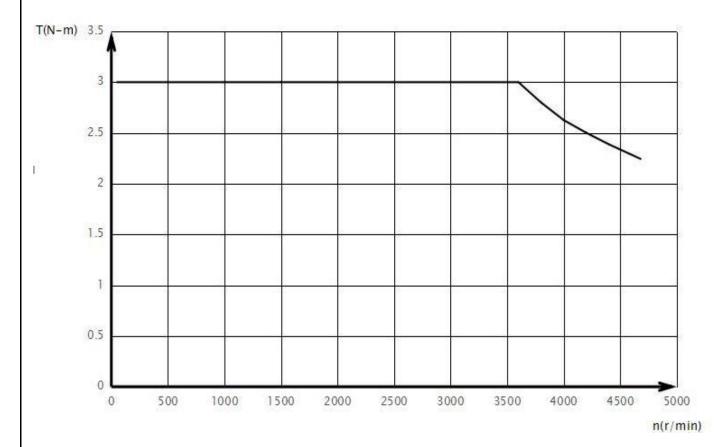
### SPEED TORQUE/CURRENT CURVE

Model: PM7

kW	Pole	r/min	Frame	BEMF K <sub>E</sub> Volt. (V)	Hz	Phase	I <sub>N</sub> Amps (A)
1.1	6	3600	71M	273.5	180	3	2.3
IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
55	F		S1	90.0			40
Rotor wk <sup>2</sup>				Torque			
Inertia	Full Load					Break	down
(kg-m²)	(N-m)					(9	%)
0.00064	2.94					2	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 #	1	Accel. Time	10-15S

Tag:

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

TOSHIBA INTERNATIONAL	CORPORATION	MOTELIOH.	TEYASIISA
I OSI IIDA IN I EKNATIONAL	CONFONATION	· 110031014.	, ILAAG U.G.A.

Engineering	Doc. Written By	P. Anderson	Doc.# / Rev	MPCF-1192 / 0
Engr. Date	Doc. Approved By	PAA	Doc. Issued	12/6/2016



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

#### **SPARE PARTS LIST\***

Model: PM7

kW	Pole	r/min	Frame	BEMF K <sub>E</sub> Volt. (V)	Hz	Phase	I <sub>N</sub> Amps (A)
1.1	6	3600	71M	273.5	180	3	2.3
IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
55	F		S1	90.0			40

 DE Bearing:
 6202-2RS

 NDE Bearing:
 6202-2RS

\*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.

Tag:

All characteristics are average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.							
Engineering		Doc. Written By	P. Anderson	Doc.# / Rev	MPCF-1193 / 0		
Engr. Date		Doc. Approved By	PAA	Doc. Issued	12/6/2016		



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

## **NAMEPLATE DATA**

Model: PM7

kW	Pole	r/min	Frame	BEMF K <sub>E</sub> Volt. (V)	Hz	Phase	I <sub>N</sub> Amps (A)
1.1	6	3600	71M	273.5	180	3	2.3
IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
55	F		S1	90.0			40

Drive End Bearing: 6202-2RS

Non-Drive End Bearing: 6202-2RS

 Rated Torque:
 2.94
 Nm

 Voltage Constant (Ke):
 0.732
 VS

Torque Constant (Kt): 1.28 Nm/A

BEMF at: 3600 r/min

Comments 1:

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

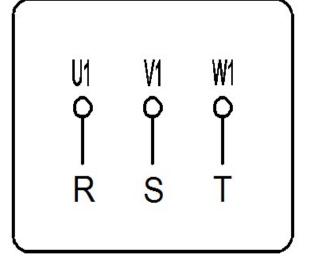
All characteristics are average expected values.

	TOSHIBA INTER	RNATIONAL CORPORATION -	HOUSTON, TEXAS U.S.A.	
En ada a cada a		Dee Weitten Du	D. Anderson	D #1

Engineering	Doc. Written By	P. Anderson	Doc.# / Rev	MPCF-1191 / 0
Engr. Date	Doc. Approved By	PAA	Doc. Issued	12/6/2016

# **TOSHIBA**

# **Motor Connection Diagrams**



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