

TOSHIBA

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

TYPICAL MOTOR PERFORMANCE DATA

Model: PM38

kW	Pole	r/min	Frame	BEMF K _E Volt. (V)	Hz	Phase	I _N Amps (A)
18.5	6	1800	132M	294	90	3	36
IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
55	F		S1	94.8			40

Load	kW	Amperes (A)	Efficiency (%)
Full Load	18.50	36.2	94.8
¾ Load	13.88	28.1	94.5
½ Load	9.25	19.5	93.5
¼ Load	4.63	10.4	89.9
No Load		4.12	

Torque				
Full Load			Breakdown	Inertia
(N-m)			(% FLT)	(kg-m²)
98.1			260	0.045

Sound Pressure		Bearin	gs*	Approx. Motor Weight	
		dB(A) @ 1M	DE	NDE	(kg)
		71	6208-2Z/C3	6206-2Z/C3	68

*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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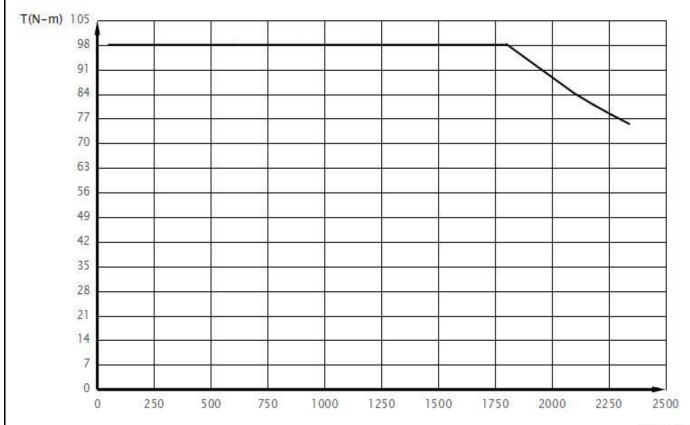
SPEED TORQUE/CURRENT CURVE

Model: PM38

kW	Pole	r/min	Frame	BEMF K _E Volt. (V)	Hz	Phase	I _N Amps (A)
18.5	6	1800	132M	294	90	3	36
IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
55	F		S1	94.8			40
Rotor wk ²				Torque			
Inertia	Full Load					Break	down
(kg-m²)	(N-m)					(9	%)
0.045	98.1					2	60

CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase synchronous motor



n(r/min)

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

Tag:

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SPARE PARTS LIST*

Model: PM38

kW	Pole	r/min	Frame	BEMF K _E Volt. (V)	Hz	Phase	I _N Amps (A)
18.5	6	1800	132M	294	90	3	36
IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
55	F		S1	94.8			40

 DE Bearing:
 6208-2Z/C3

 NDE Bearing:
 6206-2Z/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 #	
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Tag:

All characteristics are average expected values.

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NAMEPLATE DATA

Model: PM38

kW	Pole	r/min	Frame	BEMF K _E Volt. (V)	Hz	Phase	I _N Amps (A)
18.5	6	1800	132M	294	90	3	36
IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
55	F		S1	94.8			40

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Drive End Bearing: 6208-2Z/C3

Non-Drive End Bearing: 6206-2Z/C3

Rated Torque: 98.1 Nm

Torque Constant (Kt): 2.71 Nm/A

BEMF at: 1800 r/min

1.564

Comments 1:

Voltage Constant (Ke):

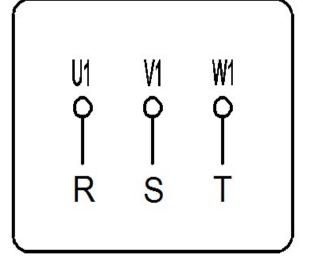
Customer	
Customer PO	
Sales Order	
Project #	
Tag:	

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