

- NOTES:
1. MAIN CONDUIT BOX MAY BE ROTATED IN 90~INCREMENTS
 2. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
 3. KEY DIMENSIONS EQUAL (MOTOR SUPPLIED WITH KEY)

UNITS: mm

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT WITHOUT NOTICE. DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS CERTIFIED.

PERMANENT MAGNET 71 IEC
TEFC (IP55) B3 ALUMINUM FRAME

MDSLE024-01

TOLERANCES	
.X	.1
.XX	.03
.XXX	.005
.XXXX	.0005

MAXIMUM MOTOR WEIGHT

XXX kgs.
(XXX lbs.)

0	FIRST ISSUE	R. Roth	08/24/16		
NO	REVISION	DRAWN BY	DATE	CHECK	

Tosh-ECO PM

DRAWN BY: _____
CHECK BY: _____
APPROVED BY: _____

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TYPICAL MOTOR PERFORMANCE DATA

Model: PM2

	kW	Pole	r/min	Frame	BEMF K_E Volt. (V)	Hz	Phase	I_N Amps (A)
	0.55	6	1800	71M	273.5	90	3	1.2
	IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
	55	F		S1	87.1			40

Load	kW	Amperes (A)	Efficiency (%)
Full Load	0.55	1.19	87.1
¾ Load	0.41	0.92	87.1
½ Load	0.28	0.64	85.5
¼ Load	0.14	0.35	78.9
No Load		0.21	

Torque				Rotor wk^2 Inertia ($kg-m^2$)
Full Load (N-m)	Locked Rotor (% FLT)	Pull Up (% FLT)	Breakdown (% FLT)	
2.92			260	0.00058

	Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (kg)
		DE	NDE	
	59	6202-2RS	6202-2RS	5

*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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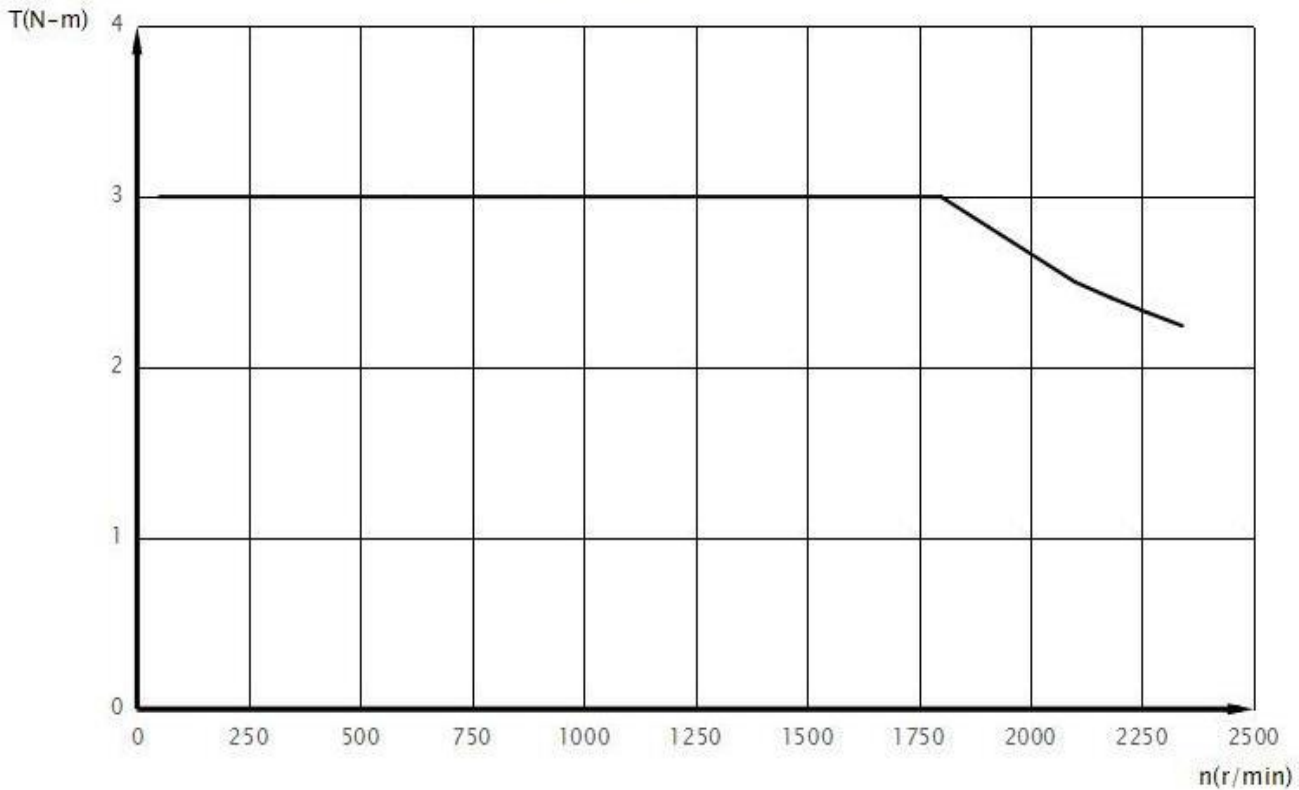
SPEED TORQUE/CURRENT CURVE

Model: PM2

	kW	Pole	r/min	Frame	BEMF K_E Volt. (V)	Hz	Phase	I_N Amps (A)
	0.55	6	1800	71M	273.5	90	3	1.2
	IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
	55	F		S1	87.1			40
	Rotor wk^2 Inertia (kg-m ²)	Torque			Breakdown (%)			
	0.00058	Full Load (N-m)						260

CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase synchronous motor



Customer		wk^2 Load Inertia (kg-m ²)		
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: PM2

	kW	Pole	r/min	Frame	BEMF K _E Volt. (V)	Hz	Phase	I _N Amps (A)
	0.55	6	1800	71M	273.5	90	3	1.2
	IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
	55	F		S1	87.1			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.

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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NAMEPLATE DATA

Model: PM2

	kW	Pole	r/min	Frame	BEMF K_E Volt. (V)	Hz	Phase	I_N Amps (A)
	0.55	6	1800	71M	273.5	90	3	1.2
	IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
	55	F		S1	87.1			40

Drive End Bearing:	6202-2RS	
Non-Drive End Bearing:	6202-2RS	
Rated Torque:	2.92	Nm
Voltage Constant (K_e):	1.452	VS
Torque Constant (K_t):	2.52	Nm/A
BEMF at:	1800	r/min
Comments 1:		

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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Motor Connection Diagrams

