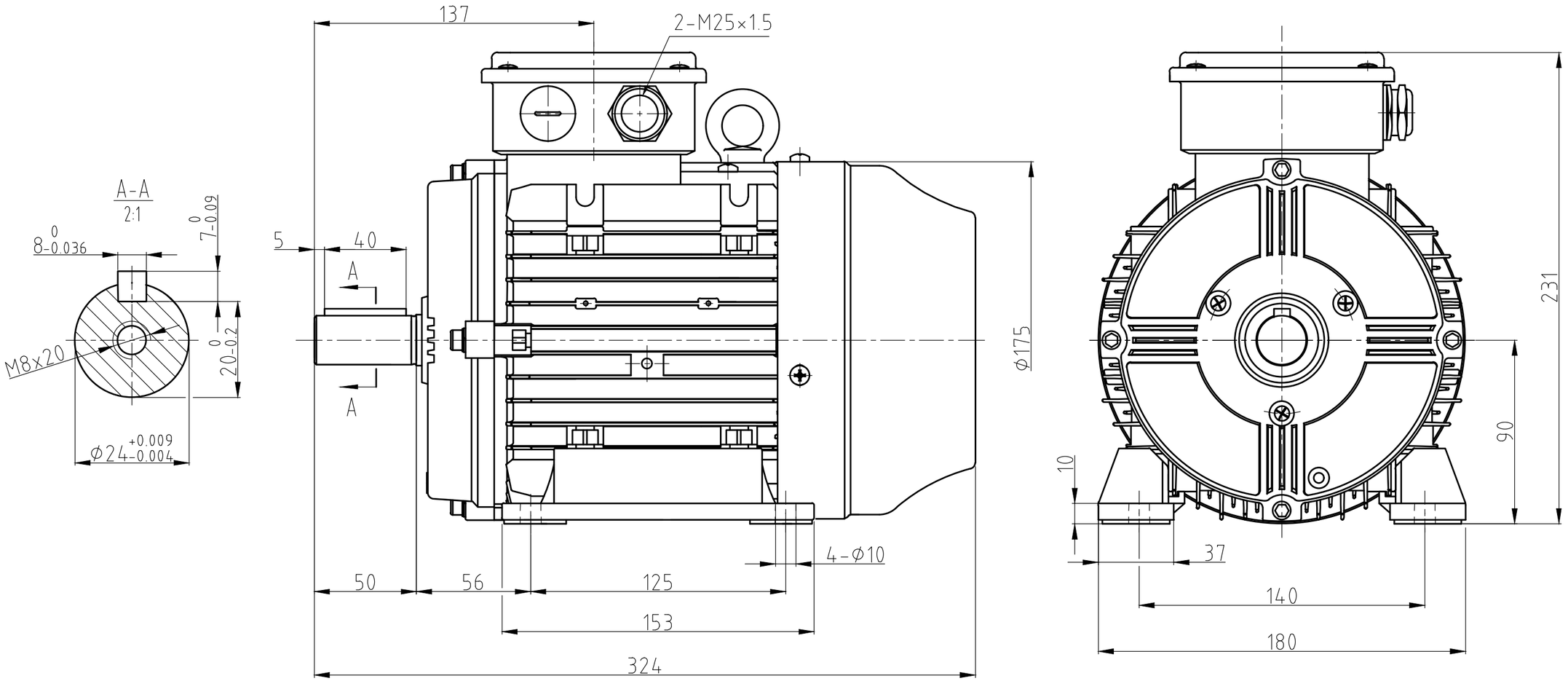

NOTES:
1. MAIN CONDUIT BOX MAY BE ROTATED IN 90~INCREMENTS
2. STANDARD PRODUCT USE BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
3. KEY DIMENSIONS EQUAL (MOTOR SUPPLIED WITH KEY)

UNITS: mm

PERMANENT MAGNENT 90L IEC TEFC (IP55) B3 ALUMINUM FRAME

MDSLE024-05

TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

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

MAXIMUM MOTOR WEIGHT

XXX kgs.
(XXX lbs.)

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

Tosh-ECO PM

DRAWN BY:
CHECK BY:
APPROVED BY:

www.toshiba.com/ind

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

TYPICAL MOTOR PERFORMANCE DATA

Model: PM12

	kW	Pole	r/min	Frame	BEMF K_E Volt. (V)	Hz	Phase	I_N Amps (A)
	1.5	6	1800	90L	288	90	3	3.2
	IP	**Ins. Class**		**Duty**	**Nom. Eff.**			**Ambient (°C)**
	55	F		S1	90.9			40

Load		kW	Amperes (A)	Efficiency (%)	
Full Load		1.50	3.16	90.9	
¾ Load		1.13	2.42	90.6	
½ Load		0.75	1.63	89.3	
¼ Load		0.38	0.87	83.7	
No Load			0.21		

Torque				Rotor wk² Inertia
Full Load (N-m)			Breakdown (% FLT)	(kg-m²)
7.98			260	0.003

		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight
			DE	NDE	(kg)
		62	6205-2Z/C3	6204-2Z/C3	11

*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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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	

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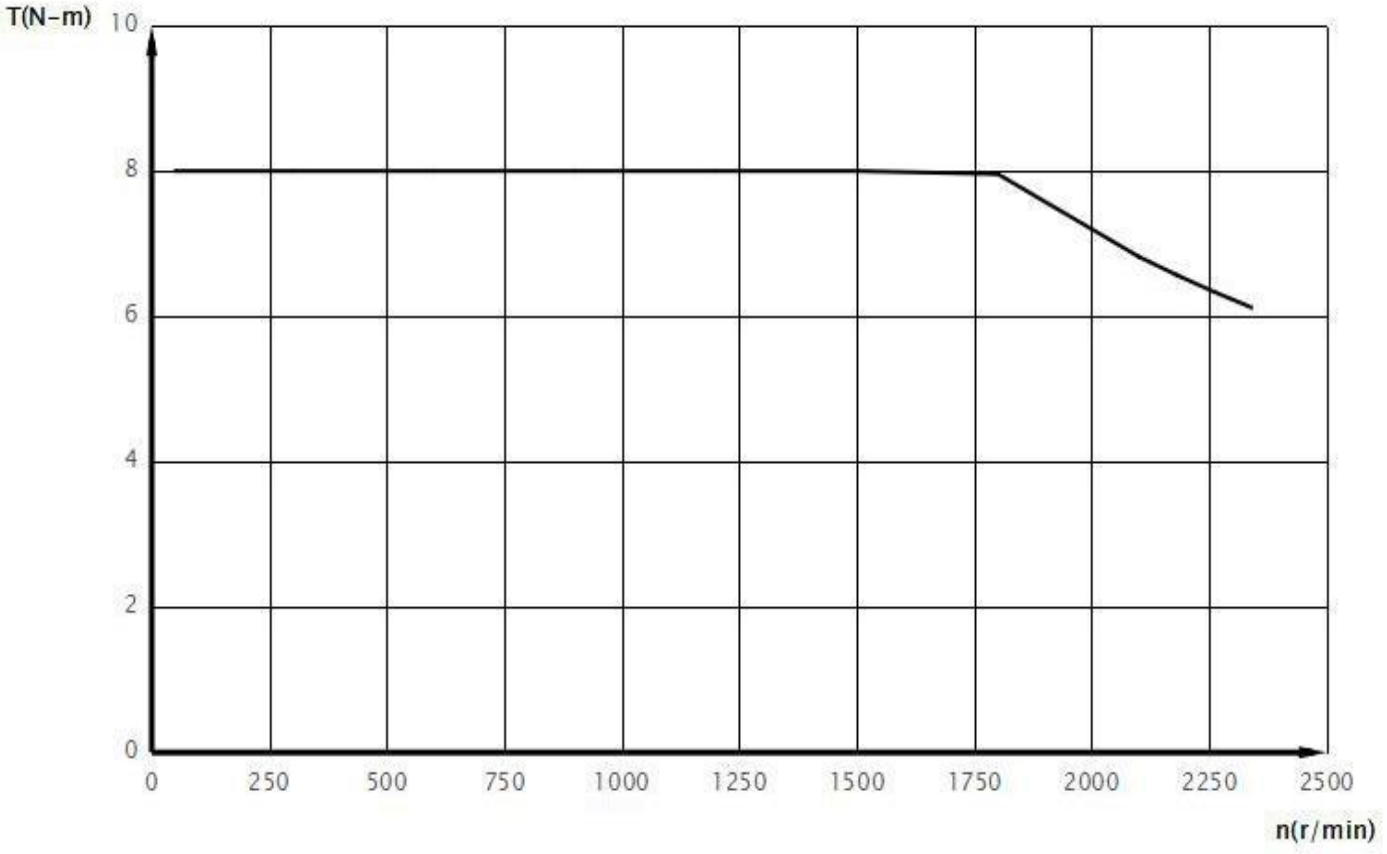
SPEED TORQUE/CURRENT CURVE

Model: PM12

	kW	Pole	r/min	Frame	BEMF K_E Volt. (V)	Hz	Phase	I_N Amps (A)
	1.5	6	1800	90L	288	90	3	3.2
	IP	Ins. Class		Duty	Nom. Eff.			Ambient (°C)
	55	F		S1	90.9			40
	Rotor wk² Inertia (kg-m²)	Torque						
		Full Load (N-m)					Breakdown (%)	
	0.003	7.98					260	

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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Engineering		Doc. Written By	P. Anderson	Doc.# / Rev	MPCF-1192 / 0
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Issued By	Yu Wenhao	**Issued Rev**	

SPARE PARTS LIST*

Model: PM12

	kW	Pole	r/min	Frame	BEMF K_E Volt. (V)	Hz	Phase	I_N Amps (A)
	1.5	6	1800	90L	288	90	3	3.2
	IP	**Ins. Class**		**Duty**	**Nom. Eff.**			**Ambient (°C)**
	55	F		S1	90.9			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.

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	

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NAMEPLATE DATA

Model: PM12

	kW	Pole	r/min	Frame	BEMF K_E Volt. (V)	Hz	Phase	I_N Amps (A)
	1.5	6	1800	90L	288	90	3	3.2
	IP	**Ins. Class**		**Duty**	**Nom. Eff.**			**Ambient (°C)**
	55	F		S1	90.9			40

Drive End Bearing:	6205-2Z/C3	
Non-Drive End Bearing:	6204-2Z/C3	
Rated Torque:	7.98	**Nm**
Voltage Constant (Ke):	1.525	**VS**
Torque Constant (Kt):	2.53	**Nm/A**
BEMF at:	1800	**r/min**
Comments 1:		

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

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

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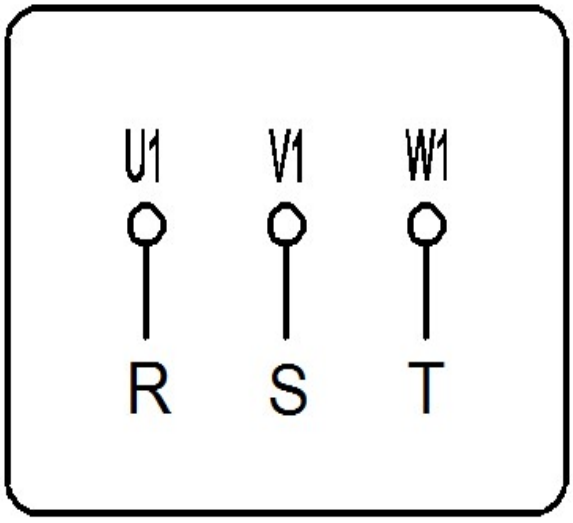
Motor Connection Diagrams



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