

- 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 0.75" x 0.75" x 5.709" (MOTOR SUPPLIED WITH KEY)

UNITS: mm [INCHES]

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.

<p>405T TEFC FRAME F2 ASSEMBLY</p>		TOLERANCES		<p>Tosh-ECO owp</p>		
		.X	.1			
<p>MDSLE021-13</p>		.XX	.03	<p>DRAWN BY: <u>Lin Qingliu</u></p>		
		.XXX	.005			
<p>TOSHIBA TOSHIBA INTERNATIONAL CORPORATION</p>		.XXXX	.0005	<p>CHECK BY: <u>Cai Zhenqiang</u></p>		
		MAXIMUM MOTOR WEIGHT				
<p>lbs.</p>		30 [1.181"]		<p>APPROVED BY: <u>Li Zhuoqing</u></p>		
		kgs.				
0		FIRST ISSUE		Lin Qingliu	03/14/17	<p>www.toshiba.com/ind</p>
NO		REVISION		DRAWN BY	DATE	



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TYPICAL MOTOR PERFORMANCE DATA

Model: OW23

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
75	55	6	1114	405T	230/460	60	3	188/94
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	-	D	G	40

Load	HP	kW	Amperes(460)	Efficiency (%)	Power Factor (%)
Full Load	75	55.93	93.9	88.4	84.6
¾ Load	56.25	41.95	72.2	90.0	81.0
½ Load	37.50	27.96	54.9	90.0	71.0
¼ Load	18.75	13.98	42.4	88.0	47.0
No Load			33.4		5.0
Locked Rotor			542		46.7

Torque				Rotor wk² Inertia (lb-ft²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
354	298	305	310	60.06

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
20	9	73	6316/C3	6316/C3	1249

*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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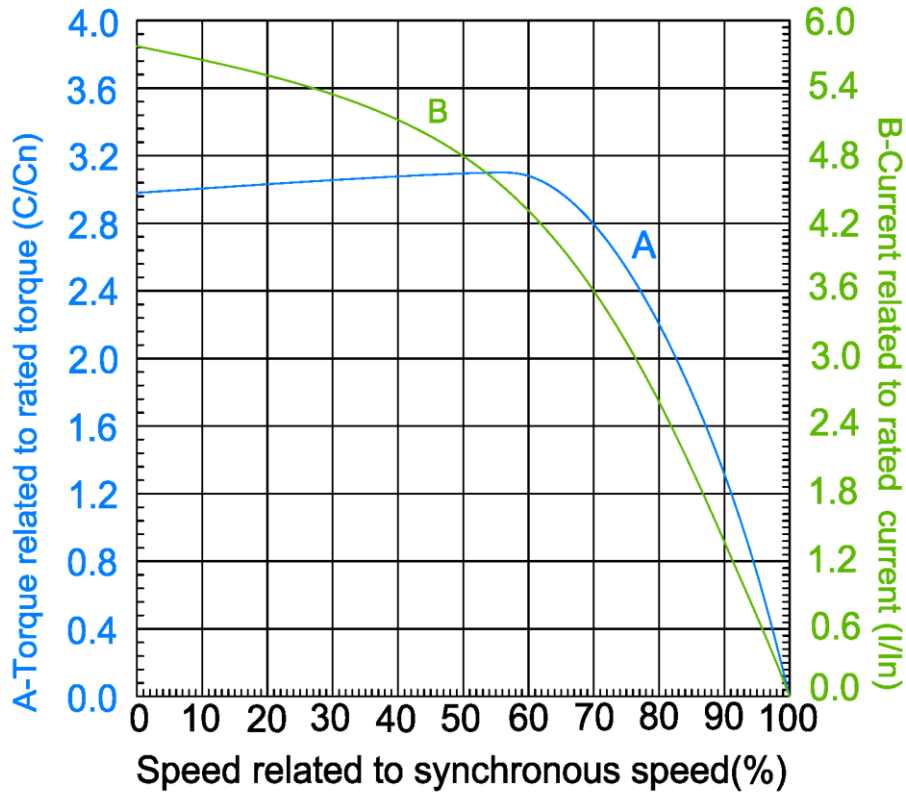
SPEED TORQUE/CURRENT CURVE

Model: OW23

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
75	55	6	1114	405T	230/460	60	3	188/94
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	-	D	G	40
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						Break Down (%)
		Full Load lb-ft (lb-ft)	Locked Rotor (%)	Pull Up (%)				
542	60.06	354	298	305			310	

CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor-Squirrel cage rotor



Customer		wk ² Load Inertia (lb-ft ²)	-
Customer PO		Load Type	-
Sales Order		Voltage(%)	100
Project #		Accel. Time	-

Tag:

All characteristics are average expected values.

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NAMEPLATE DATA

Model: OW23

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
75	55	6	1114	405T	230/460	60	3	188/94
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	-	D	G	40

Type: _____

Form: _____

Drive End Bearing: 6316/C3

Non-Drive End Bearing: 6316/C3

Power Factor: 84.5

Max Safe RPM: 1980

Comments 1: _____

Comments 2: _____

Comments 3: _____

Comments 4: _____

Customer

Customer PO

Sales Order

Project #

Tag:

All characteristics are average expected values.

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SPARE PARTS LIST*

Model: OW23

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
75	55	6	1114	405T	230/460	60	3	188/94
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	-	D	G	40

Bearings DE 6316/C3

Bearings NDE 6316/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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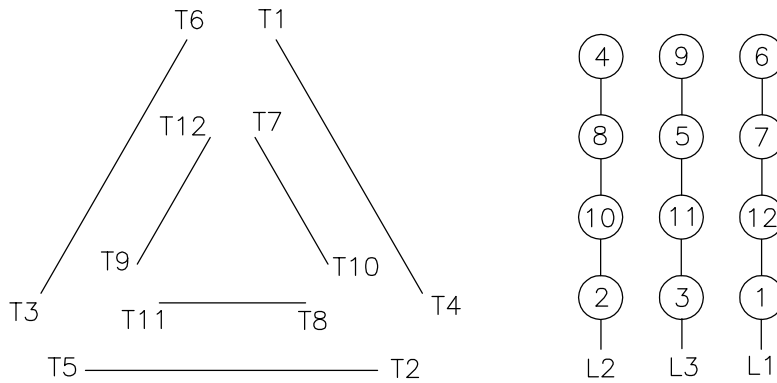
Motor Connection Diagrams

12 Leads

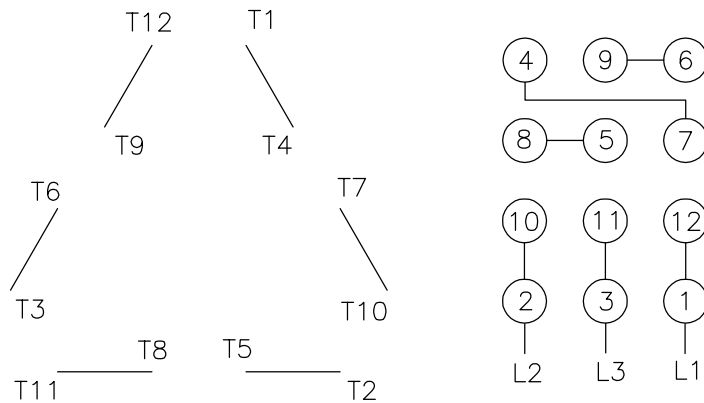
Dual Voltage

Across-the-Line Starting / Running
Connections

Low Voltage Delta



High Voltage Delta



Switch L1 and L2 to reverse rotation