

- 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 0.875" x 0.875" x 6.969" (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.

447/9T TEFC FRAME F1 ASSEMBLY		TOLERANCES							<h1>Tosh-ECO OWF</h1>
MDSLE021-10		.X	.1						
TOSHIBA TOSHIBA INTERNATIONAL CORPORATION		.XX	.03						
		.XXX	.005						
		.XXXX	.0005						
		MAXIMUM MOTOR WEIGHT							DRAWN BY: <u>Lin Qingliu</u> CHECK BY: <u>Cai Zhenqiang</u> APPROVED BY: <u>Li Zhuoqing</u> www.toshiba.com/ind
		XXX lbs.		0	FIRST ISSUE	Huang Zhenxiang	06/10/19		
		XXX kgs.		NO	REVISION	DRAWN BY	DATE	CHECK	

TYPICAL MOTOR PERFORMANCE DATA

Model: OW25

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
125	90	6	1119	447T	230/460	60	3	294/147
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	125	93.21	147	89.6	88.8
¾ Load	93.75	69.91	113	91.0	85.5
½ Load	62.50	46.61	82.9	91.4	77.2
¼ Load	31.25	23.30	59.6	88.7	55.4
No Load			51.3		6.1
Locked Rotor			908		44.5

Torque				Rotor wk² Inertia (lb-ft²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
587	320	350	380	148.8

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
22	10	85	NU319	6319/C3	2623

*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%.

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

Engineering		Doc. Written By	P. Anderson	Doc.# / Rev	MDSLE021-10/0
Engr. Date		Doc. Approved By	PAA	Doc. Issued	2019/6/13

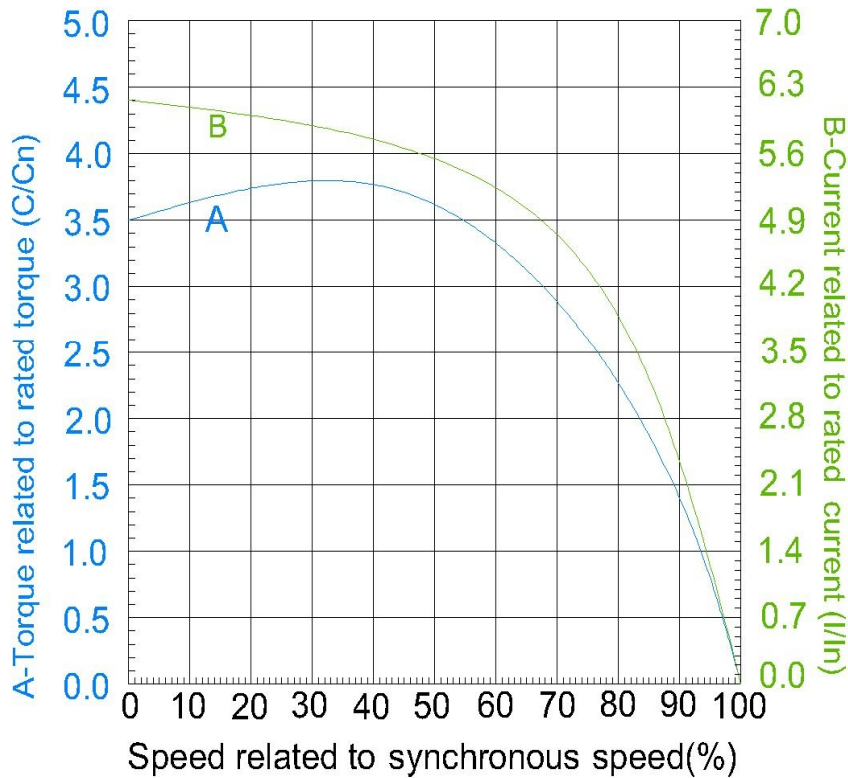
SPEED TORQUE/CURRENT CURVE

Model: OW25

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
125	90	6	1119	447T	230/460	60	3	294/147
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				Pull Up (%)	Break Down (%)	
		Full Load lb-ft (lb-ft)	Locked Rotor (%)					
908	148.8	587	320		350	380		

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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Issued Date	2019/6/13	Transmit #	
Issued By	Huang Zhenxiang	Issued Rev	0

NAMEPLATE DATA

Model: OW25

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
125	90	6	1119	447T	230/460	60	3	294/147
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: NU319
 Non-Drive End Bearing: 6319/C3
 Power Factor: 89.0
 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.

Issued Date	2019/6/13	Transmit #	
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SPARE PARTS LIST*

Model: OW25

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
125	90	6	1119	447T	230/460	60	3	294/147
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	NU319
Bearings NDE	6319/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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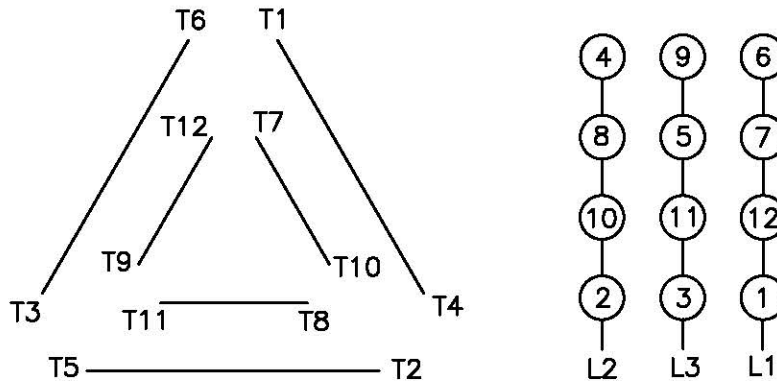
Motor Connection Diagrams

12 Leads

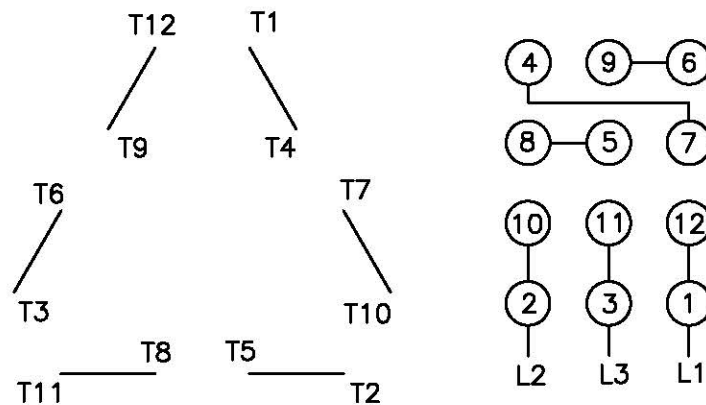
Dual Voltage

Across-the-Line Starting / Running Connections

Low Voltage Delta



High Voltage Delta



Switch L1 and L2 to reverse rotation