

- 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 0.5"x0.5"x3.28" (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.

280T TEFC FRAME F2 ASSEMBLY	TOLERANCES .X .1 .XX .03 .XXX .005 .XXXX .0005					Tosh-ECO OWP
	MDSLE021-07	MAXIMUM MOTOR WEIGHT lbs. kgs.				
TOSHIBA <small>TOSHIBA INTERNATIONAL CORPORATION</small>		0 FIRST ISSUE	Lin Qingliu 03/12/17			DRAWN BY: Lin Qingliu CHECK BY: Cai Zhengqiang APPROVED BY: Li Zhuoqing
		NO REVISION	DRAWN BY DATE CHECK			www.toshiba.com/ind



Issued Date	10/31/2016	Transmit #	
Issued By	Huang Zhenxiang	Issued Rev	0

TYPICAL MOTOR PERFORMANCE DATA

Model: OW17

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
20	15	6	1113	286T	230/460	60	3	56/28
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	20	14.91	27.5	85.9	79.1
¾ Load	15.00	11.19	22.1	87.0	73.0
½ Load	10.00	7.46	17.6	86.0	62.0
¼ Load	5.00	3.73	14.4	81.0	40.0
No Load			11.7		7.1
Locked Rotor			145		46.4

Torque				Rotor wk ² Inertia (lb-ft ²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
94.9	299	302	306	5.93

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
29	13	71	6311/C3	6309/C3	420

*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	MDSLE021-07/0
Engr. Date		Doc. Approved By	PAA	Doc. Issued	10/31/2016



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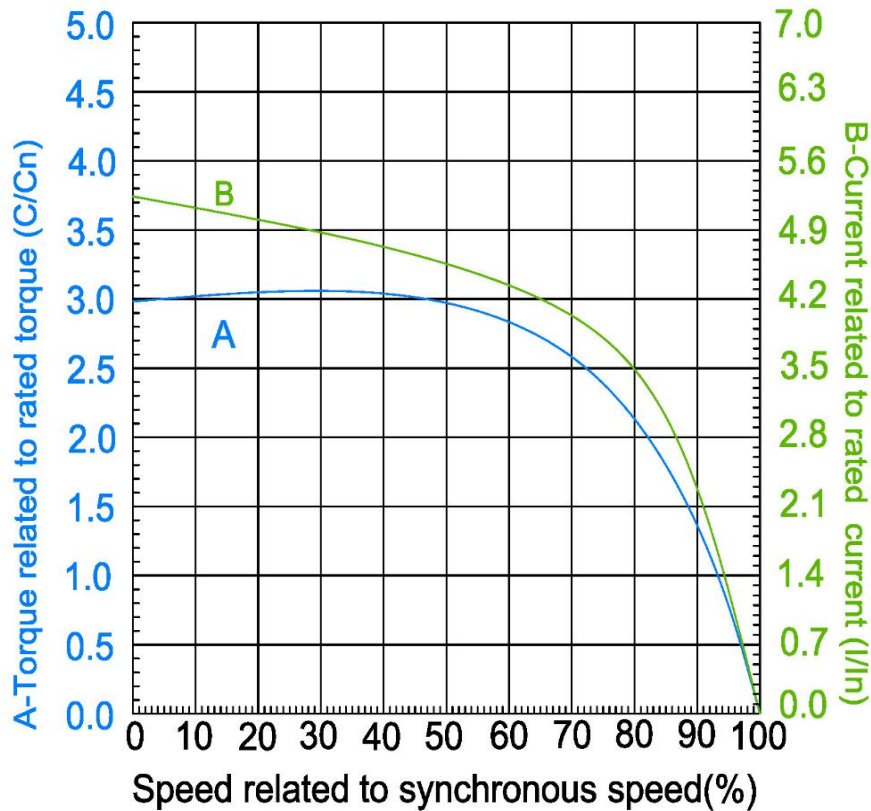
SPEED TORQUE/CURRENT CURVE

Model: OW17

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
20	15	6	1113	286T	230/460	60	3	56/28
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 (%)					
145	5.93	94.9	299		-	306		

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%)	100
Project #		Accel. Time	-

Tag:

All characteristics are average expected values.

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NAMEPLATE DATA

Model: OW17

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
20	15	6	1113	286T	230/460	60	3	56/28
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: 6311/C3
Non-Drive End Bearing: 6309/C3
Power Factor: 79.0
Max Safe RPM: 2640
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: OW17

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
20	15	6	1113	286T	230/460	60	3	56/28
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	6311/C3
Bearings NDE	6309/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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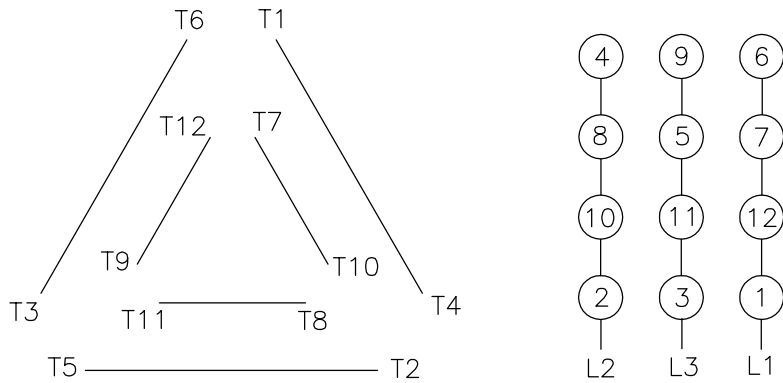
Motor Connection Diagrams

12 Leads

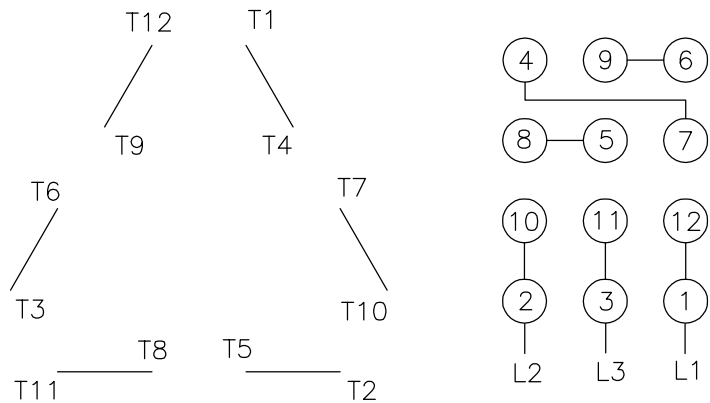
Dual Voltage

Across-the-Line Starting / Running
Connections

Low Voltage Delta



High Voltage Delta



Switch L1 and L2 to reverse rotation