

UNITS: INCHES  
 ROTATION FROM ODE  
 CCW  CW

TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE  PRELIMINARY

DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED  CERTIFIED

- NOTES:
1. MAIN CONDUIT BDX MAY BE ROTATED IN 90° INCREMENTS
  2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
  3. KEY DIMENSIONS EQUAL 01875X01875X1378 (MOTOR SUPPLIED WITH KEY)

TOSHIBA  
 www.toshiba.com/tic  
**EQP Global**  
 SD  
 TOSHIBA INTERNATIONAL CORPORATION

TOTALLY ENCLOSED NONVENTILATED  
 ROUND BODY C-FACED  
 3 PHASE INDUCTION MOTOR  
 56C/56HC F1 ASSEMBLY

DRAWING #: 3HFN000614/MDSL V126-03  
 REV. DATE: 2/14/20 REV. #: 1 PER: CONG HIEU  
 REV. DESCIP: Remove dimension KEY

**TYPICAL MOTOR PERFORMANCE DATA**

Model: 1/24FNSR34H-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.50	0.37	4	1755	56C	230/460	60	3	1.4/0.7
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TENV	55	F	1.25	CONT	84.0	-		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	0.50	0.4	0.7	84.8	74.9
¾ Load	0.38	0.3	0.6	83.4	67.5
½ Load	0.25	0.2	0.5	79.3	55.7
¼ Load	0.13	0.1	0.4	66.8	37.1
No Load			0.4		
Locked Rotor			5.6		51.1

Torque				Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
1.50	245	195	355	0.11

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
35	15		6305ZZ	6305ZZ	53

\*Bearings are the only recommended spare part(s).

**Motor Options:**  
Mounting:C-Face Round,Shaft:56

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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

Engineering	SPinzon	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	6/23/2022	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**TYPICAL MOTOR PERFORMANCE DATA**

Model: 1/24FNSR34H-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.50	0.37	4	1440	56C	190/380	50	3	1.8/0.9
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TENV	55	F	1.0	CONT	81.5	-		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	0.50	0.4	0.9	82.4	79.4
¾ Load	0.38	0.3	0.7	82.5	73.4
½ Load	0.25	0.2	0.5	79.8	62.2
¼ Load	0.13	0.1	0.4	69.2	42.6
No Load			0.4		
Locked Rotor			5.1		56.2

Torque				Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
1.82	200	155	295	0.11

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
35	15		6305ZZ	6305ZZ	53

\*Bearings are the only recommended spare part(s).

**Motor Options:**  
Mounting:C-Face Round,Shaft:56

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

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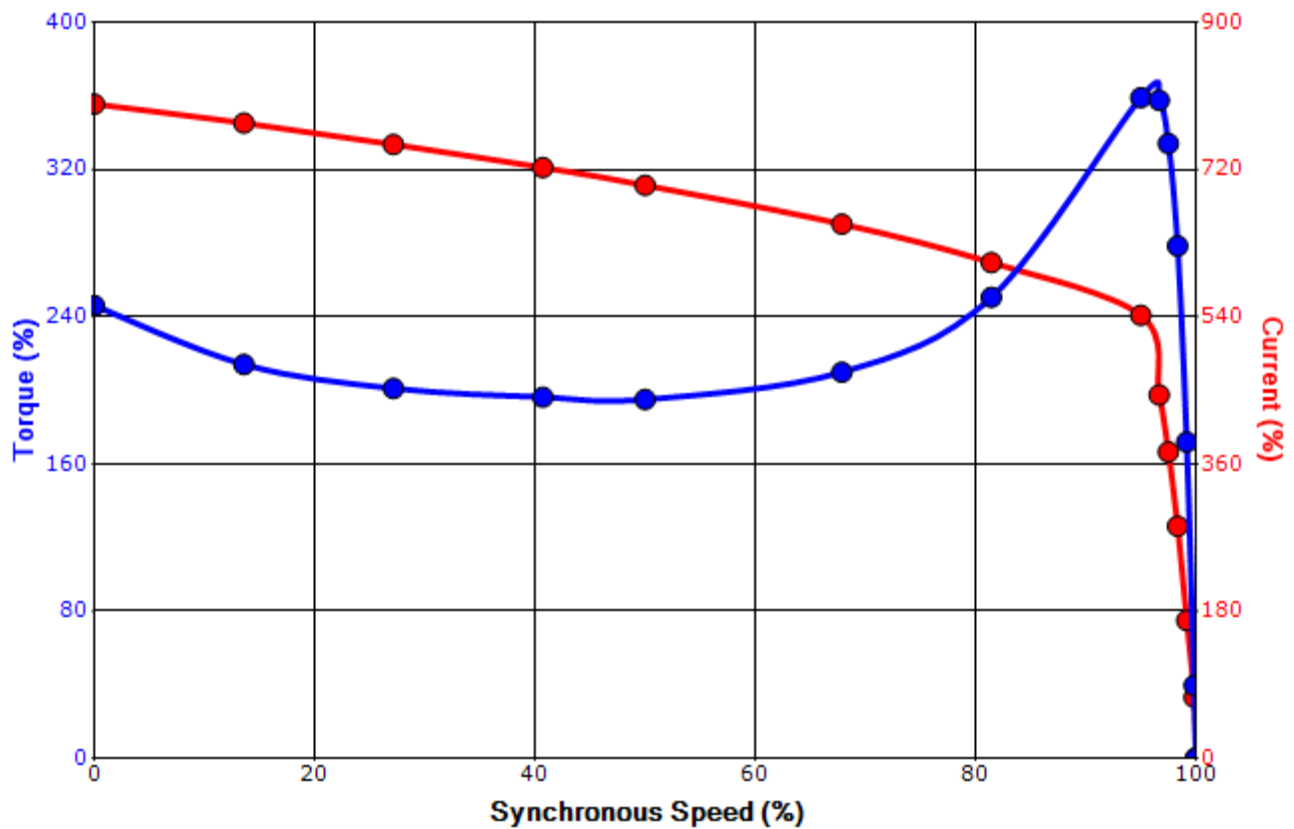
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**SPEED TORQUE/CURRENT CURVE**

Model: 1/24FNSR34H-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.50	0.37	4	1755	56C	230/460	60	3	1.4/0.7
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TENV	55	F	1.25	CONT	84.0	-		40 C
Locked Rotor Amps	Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
5.6	0.11	1.50	245	195			355	

**Design Values**



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

Tag:

All characteristics are average expected values.

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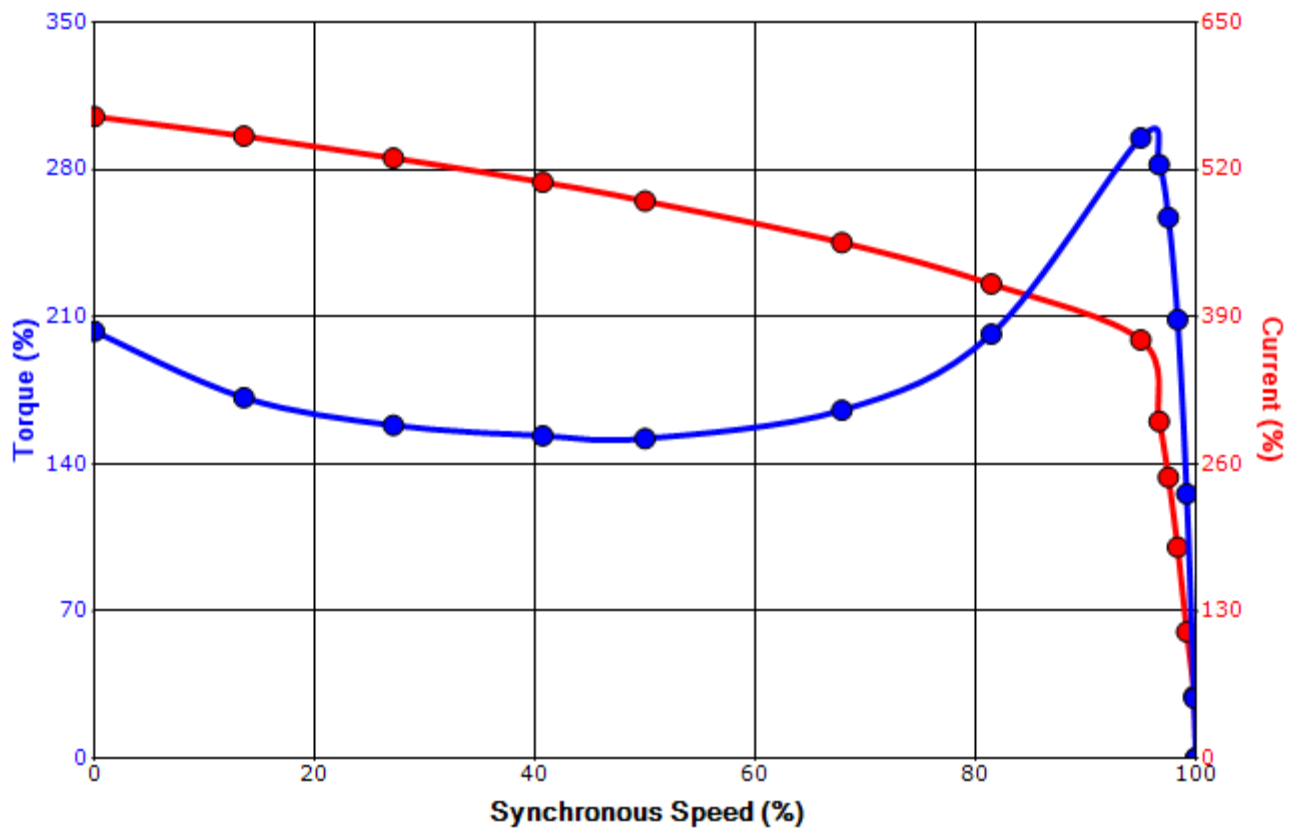
Engineering	SPinzon	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
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**SPEED TORQUE/CURRENT CURVE**

Model: 1/24FNSR34H-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.50	0.37	4	1440	56C	190/380	50	3	1.8/0.9
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TENV	55	F	1.0	CONT	81.5	-		40 C
Locked Rotor Amps	Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
5.1	0.11	1.82	200	155			295	

**Design Values**



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

Tag:

All characteristics are average expected values.

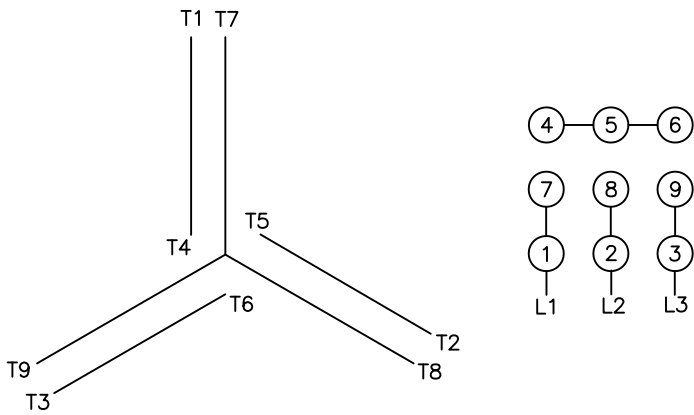
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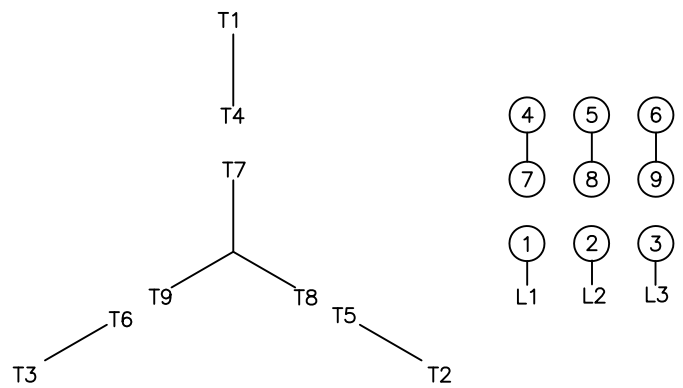
**Motor Connection Diagrams**  
9 Leads

Across-the-Line Starting / Running Connections

Low Voltage Wye



High Voltage Wye



Switch L1 and L2 to reverse rotation