

UNITS: INCHES  
 ROTATION FROM DDE  
 CCW  CW

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

PRELIMINARY

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

NOTES:  
 1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS  
 2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.  
 3. KEY DIMENSIONS EQUAL 0.1875X0.1875X1.378" (MOTOR SUPPLIED WITH KEY)

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TOTALLY ENCLOSED FAN COOLED  
 HORIZONTAL FOOT MOUNT  
 3 PHASE INDUCTION MOTOR  
 56-56H F1 ASSEMBLY

DRAWING #: 3HFN000510/MDSL V125-01  
 REV. DATE: 02/14/20 REV. #: 2 PER.: -  
 REV. DESCRIP.: Remove old rev & KEY dimensions

**TYPICAL MOTOR PERFORMANCE DATA**

Model: 3/46SDSC31H-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.75	0.55	6	1170	56	575	60	3	1.1
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	82.5	B		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	0.75	0.6	1.1	82.5	63.2
¾ Load	0.56	0.4	0.9	80.5	54.5
½ Load	0.38	0.3	0.8	75.4	42.6
¼ Load	0.19	0.1	0.5	72.2	39.0
No Load			0.8		
Locked Rotor			7.2		52.4

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)	
3.37	245	185	310	0.15

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
35	15		6305ZZ	6305ZZ	52

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

**Motor Options:**  
Mounting:Footed,Shaft:56

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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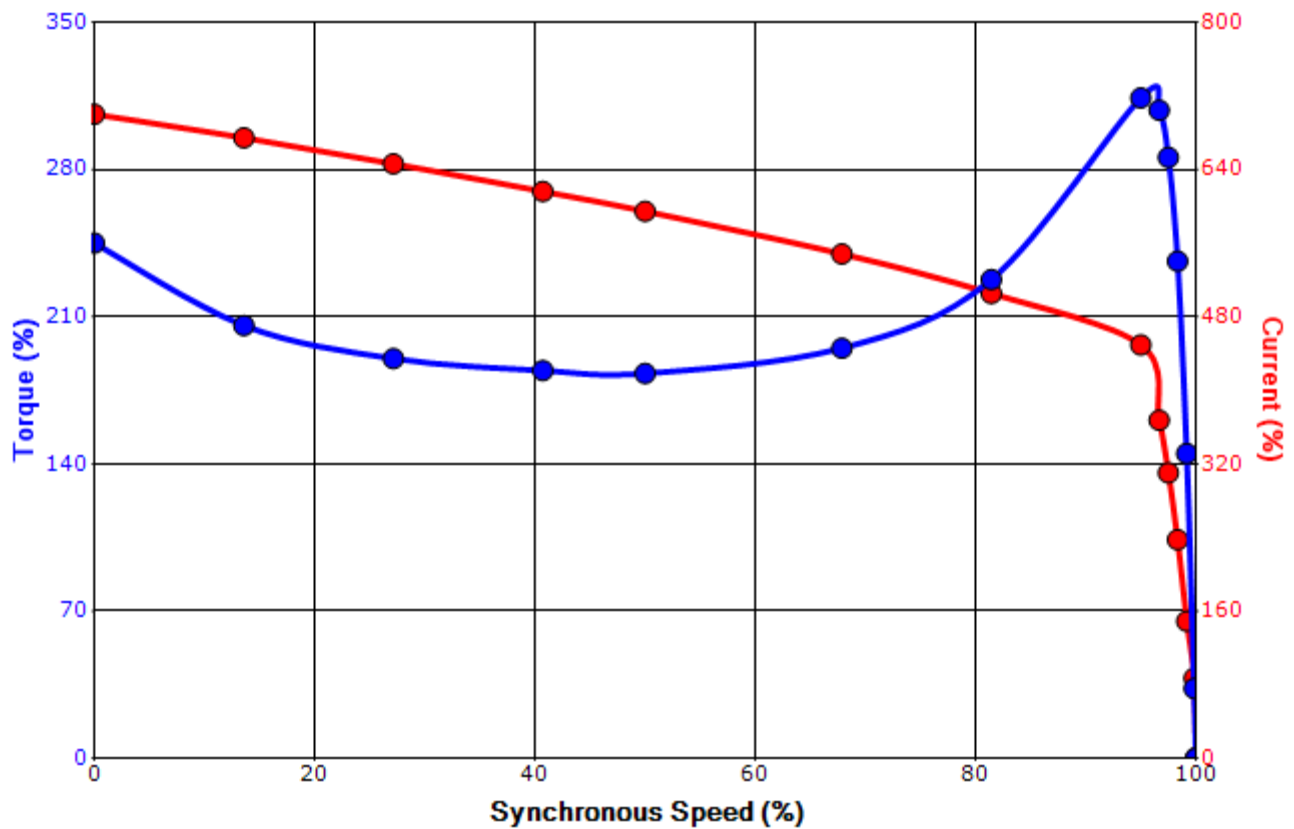
Engineering	SPinzon	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	8/4/2022	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**SPEED TORQUE/CURRENT CURVE**

Model: 3/46SDSC31H-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.75	0.55	6	1170	56	575	60	3	1.1
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	82.5	B		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 (%)				
7.2	0.15	3.37	245	185			310	

**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
Engr. Date	8/4/2022	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

# Motor Connection Diagram

## 3 Leads - Wye Connection

### Single Voltage



Switch L1 and L2 to reverse rotation

Each lead may consist of more than one cable.  
If multiple cables represent a single lead, each one of them will be labeled with the appropriate lead number.