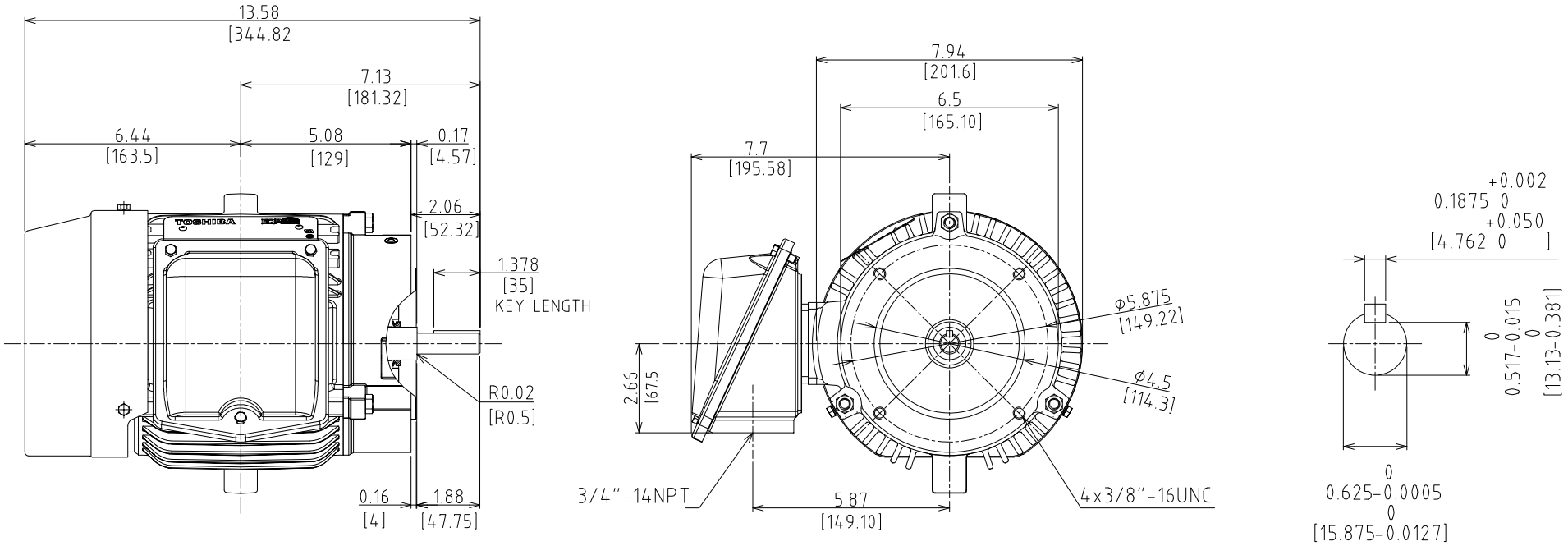

UNITS: INCHES ROTATION FROM ODE X CCW ☐ CW	NOTES: 1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS 2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE. 3. KEY DIMENSIONS EQUAL 0.1875"X0.1875"X1.378" (MOTOR SUPPLIED WITH KEY)

TOSHIBA

www.toshiba.com/tic

TOSHIBA INTERNATIONAL CORPORATION

EQP Global SD

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

DRAWING #: 3HFN000613/MDSLV125-03

REV. DATE: 2/14/20 REV. #: 1 PER.: N.Danh

REV. DESCRIP.: Remove dimension KEY

Issued Date	6/19/2025	Transmit #	
Issued By	dschoeck	Issued Rev	

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TYPICAL MOTOR PERFORMANCE DATA

Model: 3/42SDSR34H-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.75	0.55	2	3510	56C	230/460	60	3	2.2/1.1
Enclosure	**IP**	**Ins. Class**	**S.F.**	**Duty**	**NEMA Nom. Eff.**	**NEMA Design**	**kVA Code**	**Ambient (°C)**
TEFC	55	F	1.25	CONT	84.0	-		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	0.75	0.6	1.1	84.8	78.7
¾ Load	0.56	0.4	0.8	82.9	72.4
½ Load	0.37	0.3	0.7	77.7	61.3
¼ Load	0.19	0.1	0.6	63.3	43.0
No Load			0.5		10.9
Locked Rotor			7.4		54.7

Torque				Rotor wk² Inertia
Full Load (lb-ft)	**Locked Rotor (% FLT)**	**Pull Up (% FLT)**	**Break Down (% FLT)**	**(lb-ft²)**
1.12	220	170	275	0.04

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight
Cold	**Hot**		**DE**	**NDE**	**(lbs)**
35	15		6305ZZ	6305ZZ	48

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

Motor Options:
Product Family:EQP Global SD
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

Issued Date	6/19/2025	Transmit #	
Issued By	dschoeck	Issued Rev	

TOSHIBA
Leading Innovation >>>

TYPICAL MOTOR PERFORMANCE DATA

Model: 3/42SDSR34H-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.50	0.37	2	2925	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)**
TEFC	55	F	1.0	CONT	81.5	-		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	0.50	0.4	0.9	82.1	75.3
¾ Load	0.37	0.3	0.7	79.2	68.1
½ Load	0.25	0.2	0.6	72.6	57.1
¼ Load	0.12	0.1	0.6	56.4	40.5
No Load			0.5		11.9
Locked Rotor			6.6		58.9

Torque				Rotor wk² Inertia
Full Load (lb-ft)	**Locked Rotor (% FLT)**	**Pull Up (% FLT)**	**Break Down (% FLT)**	**(lb-ft²)**
0.90	265	200	300	0.04

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight
Cold	**Hot**		**DE**	**NDE**	**(lbs)**
35	15		6305ZZ	6305ZZ	48

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

Motor Options:
Product Family:EQP Global SD
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

Issued Date	6/19/2025	Transmit #	
Issued By	dschoeck	Issued Rev	

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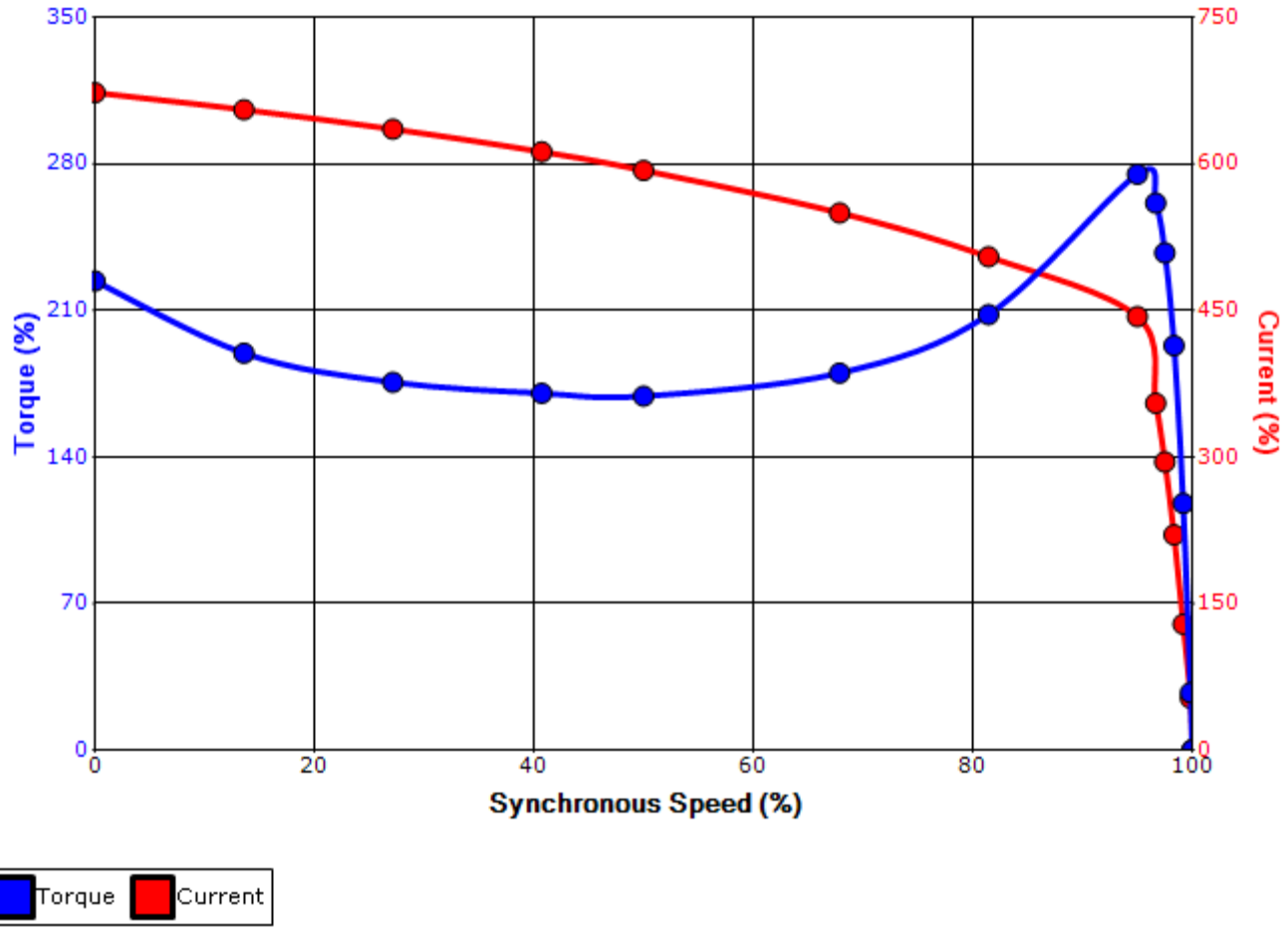
SPEED TORQUE/CURRENT CURVE

Model: 3/42SDSR34H-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.75	0.55	2	3510	56C	230/460	60	3	2.2/1.1
Enclosure	**IP**	**Ins. Class**	**S.F.**	**Duty**	**NEMA Nom. Eff.**	**NEMA Design**	**kVA Code**	**Ambient (°C)**
TEFC	55	F	1.25	CONT	84.0	-		40 C

Locked Rotor Amps	Rotor wk² Inertia (lb-ft²)	Torque			
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)
7.4	0.04	1.12	220	170	275

Design Values



Customer		**wk² Load Inertia (lb-ft²)**	-
Customer PO		**Load Type**	-
Sales Order		**Voltage (%)**	100
Project #		**Accel. Time**	-

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-1121 / 0
Engr. Date	6/23/2022	**Doc. Approved By**	M. Campbell	**Doc. Issued**	6/8/2011

Issued Date	6/19/2025	Transmit #	
Issued By	dschoeck	Issued Rev	

TOSHIBA
Leading Innovation >>>

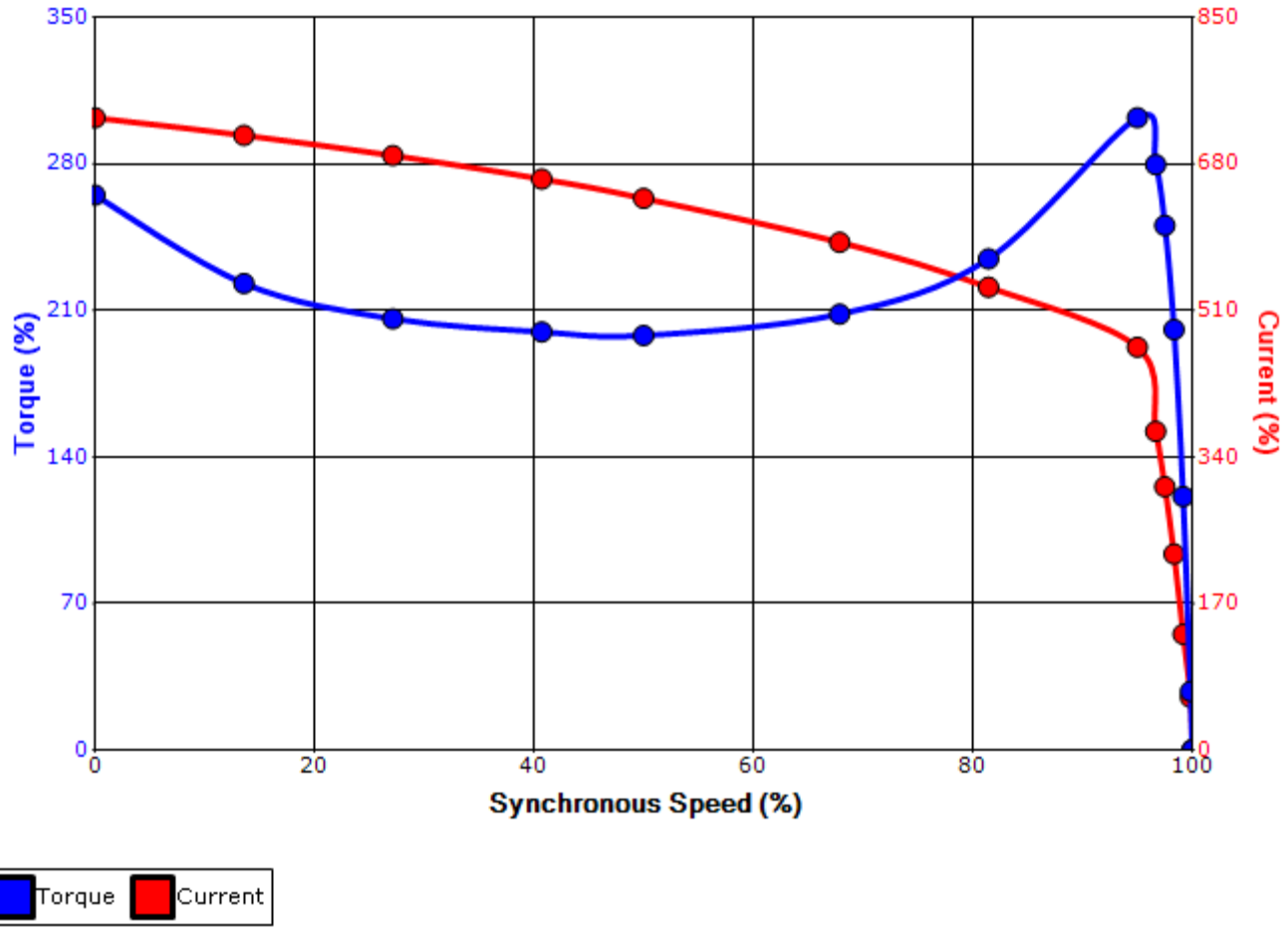
SPEED TORQUE/CURRENT CURVE

Model: 3/42SDSR34H-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.50	0.37	2	2925	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)**
TEFC	55	F	1.0	CONT	81.5	-		40 C

Locked Rotor Amps	Rotor wk² Inertia (lb-ft²)	Torque			
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)
6.6	0.04	0.90	265	200	300

Design Values



Customer				**wk² Load Inertia (lb-ft²)**	-
Customer PO				**Load Type**	-
Sales Order				**Voltage (%)**	100
Project #				**Accel. Time**	-

Tag:

All characteristics are average expected values.

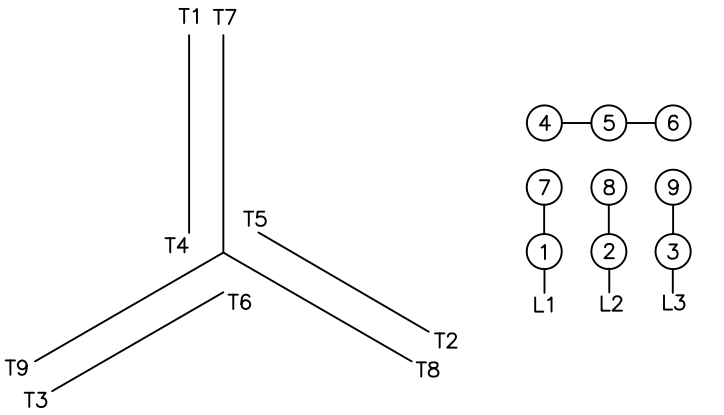
TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

Engineering	SPinzon	**Doc. Written By**	D. Suarez	**Doc.# / Rev**	MPCF-1121 / 0
Engr. Date	6/23/2022	**Doc. Approved By**	M. Campbell	**Doc. Issued**	6/8/2011

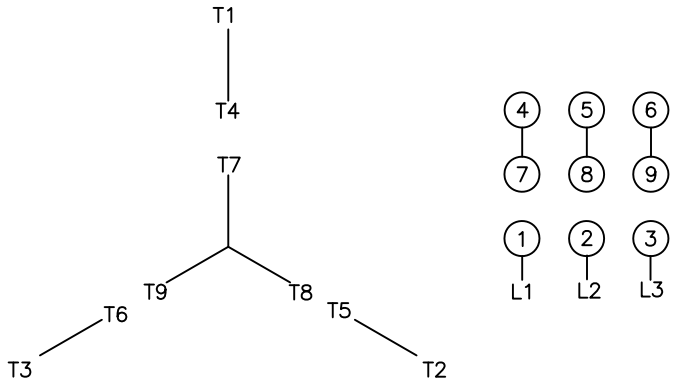
Motor Connection Diagrams
9 Leads

Across-the-Line Starting / Running Connections

Low Voltage Wye



High Voltage Wye



Switch L1 and L2 to reverse rotation

Issued Date:	6/19/2025	**Transmit #:**	
Issued By:	dschoeck	**Issued Rev:**	

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SPARE PARTS LIST*

Model: 3/42SDSR34H-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.75	0.55	2	3510	56C	230/460	60	3	2.2/1.1
Enclosure	**IP**	**Ins. Class**	**S.F.**	**Duty**	**NEMA Nom. Eff.**	**NEMA Design**	**kVA Code**	**Ambient (°C)**
TEFC	55	F	1.25	CONT	84.0	-		40 C

Bearings DE	6305ZZ / 25BC03JPPOX
Bearings NDE	6305ZZ / 25BC03JPPOX

*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.

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

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