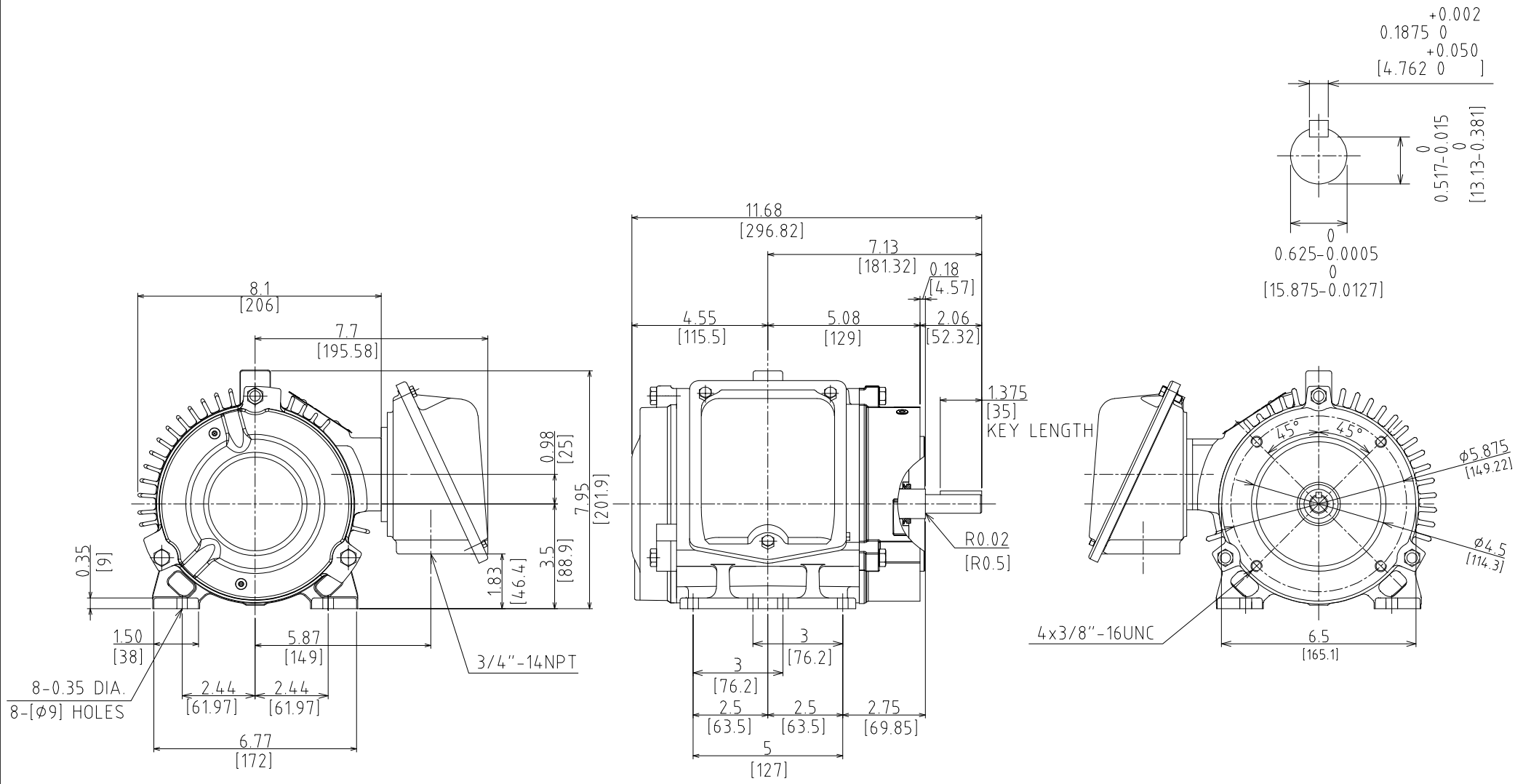


UNITS: INCHES
ROTATION FROM ODE
X CCW ☐ CW

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 NONVENTILATED FOOTED C-FACED 3 PHASE INDUCTION MOTOR

56C-56HC F1 ASSEMBLY

DRAWING #: 3HFN000618/MDSLV126-02
REV. DATE: 02/14/20 REV. #: 1 PER.: -
REV. DESCRIP.: Remove KEY dimensions

Issued Date	5/11/2023	Transmit #	
Issued By	dschoeck	Issued Rev	

TOSHIBA
Leading Innovation >>>

TYPICAL MOTOR PERFORMANCE DATA

Model: 1/24FNSR32H-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 wk² Inertia
Full Load (lb-ft)	**Locked Rotor (% FLT)**	**Pull Up (% FLT)**	**Break Down (% FLT)**	**(lb-ft²)**
1.50	245	195	355	0.11

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

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

Motor Options:
Mounting:C-Face Footed,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	5/11/2023	Transmit #	
Issued By	dschoeck	Issued Rev	

TOSHIBA
Leading Innovation >>>

TYPICAL MOTOR PERFORMANCE DATA

Model: 1/24FNSR32H-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 wk² Inertia
Full Load (lb-ft)	**Locked Rotor (% FLT)**	**Pull Up (% FLT)**	**Break Down (% FLT)**	**(lb-ft²)**
1.82	200	155	295	0.11

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

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

Motor Options:
Mounting:C-Face Footed,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	5/11/2023	Transmit #	
Issued By	dschoeck	Issued Rev	

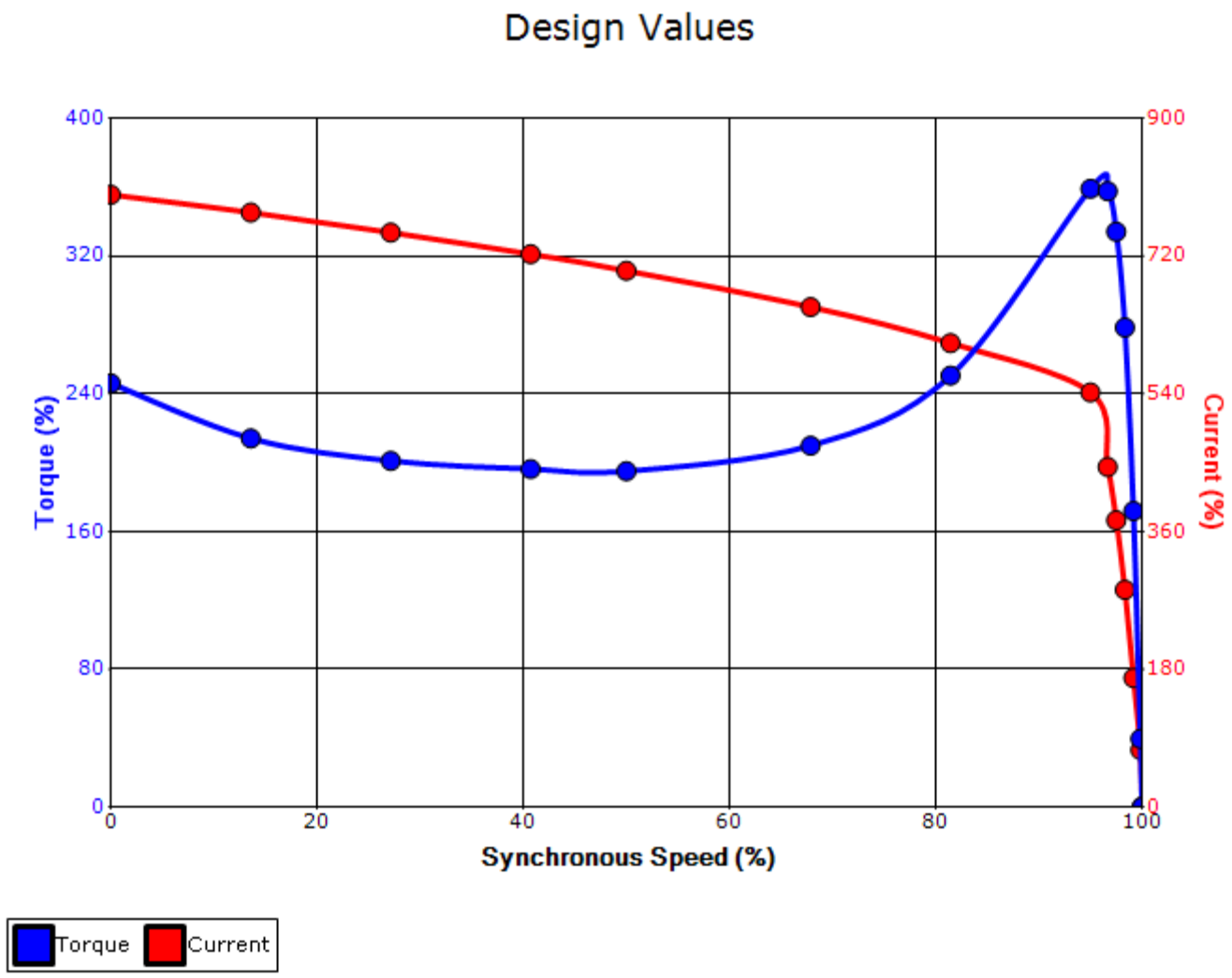
TOSHIBA
Leading Innovation >>>

SPEED TORQUE/CURRENT CURVE

Model: 1/24FNSR32H-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 wk² Inertia (lb-ft²)	Torque			
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)
5.6	0.11	1.50	245	195	355



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	5/11/2023	Transmit #	
Issued By	dschoeck	Issued Rev	

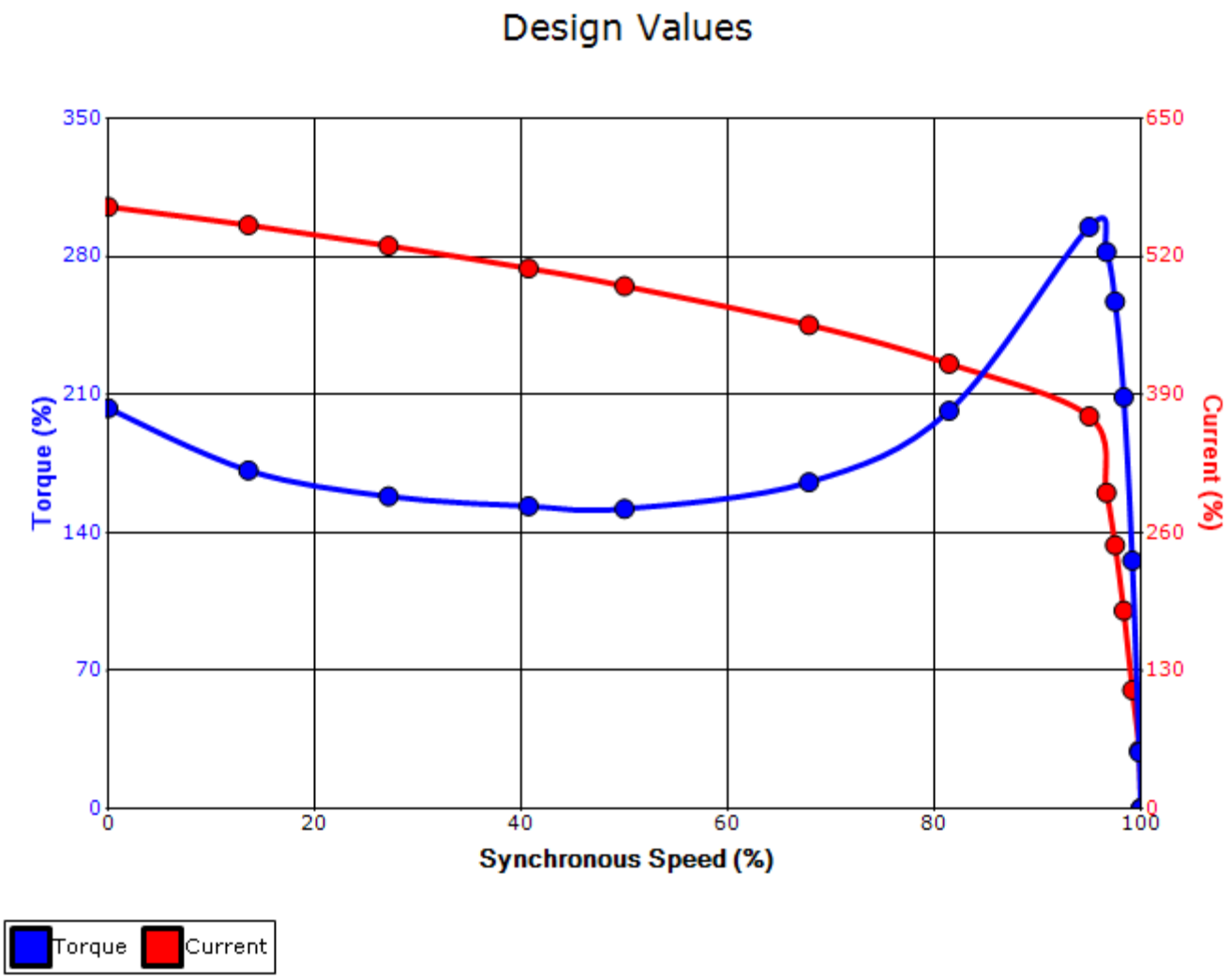
TOSHIBA
Leading Innovation >>>

SPEED TORQUE/CURRENT CURVE

Model: 1/24FNSR32H-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 wk² Inertia (lb-ft²)	Torque			
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)
5.1	0.11	1.82	200	155	295



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

Tag:

All characteristics are average expected values.

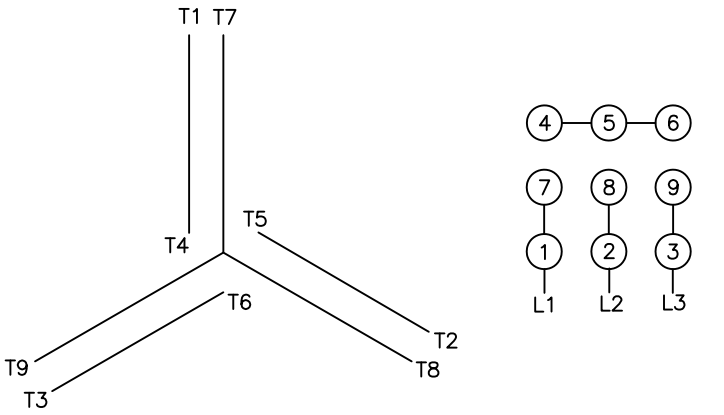
TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

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

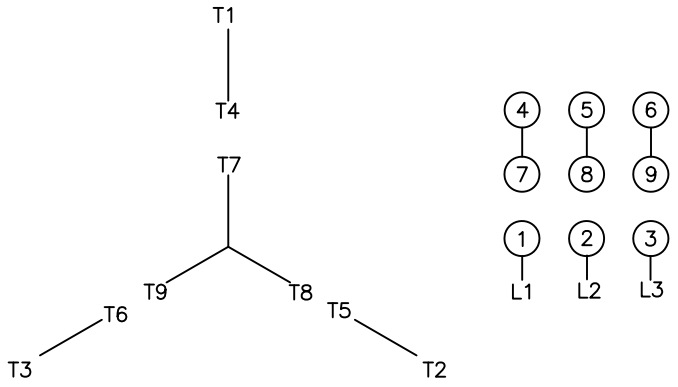
Motor Connection Diagrams
9 Leads

Across-the-Line Starting / Running Connections

Low Voltage Wye



High Voltage Wye



Switch L1 and L2 to reverse rotation

By: R. Murillo	Date: 4/9/08	Checked: MDC	Date: 5/17/11	Revision 0