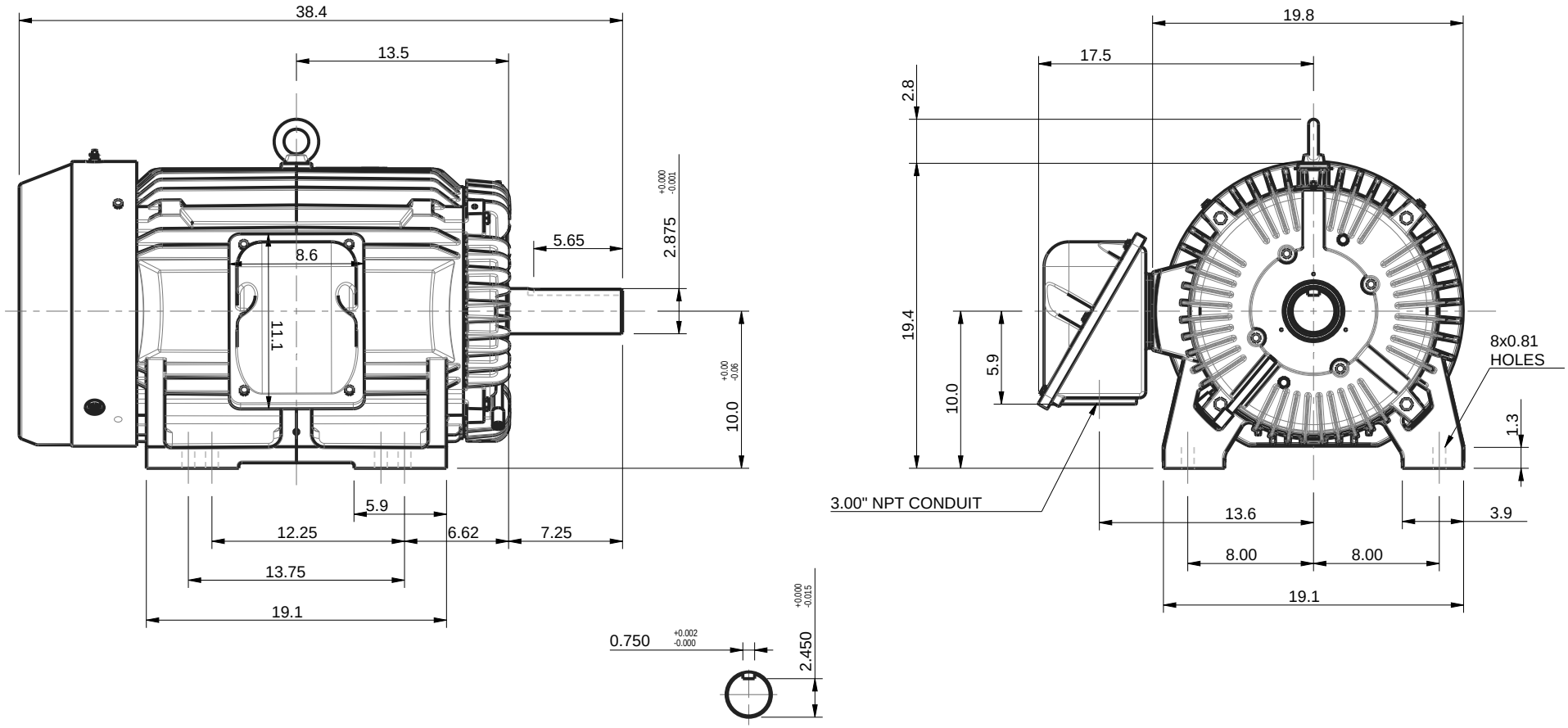


UNITS: INCHES	NOTES:
ROTATION FROM NDE	1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS
X CCW CW	2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
	3. KEY DIMENSIONS EQUAL 0.75x0.75x5.62 (MOTOR SUPPLIED WITH KEY)

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 — [X] CERTIFIED

TOSHIBA
www.toshiba.com/tic
TOSHIBA INTERNATIONAL CORPORATION

SEVERE DUTY EQP Global SD

TOTALLY ENCLOSED FAN COOLED
HORIZONTAL FOOT MOUNT
3 PHASE INDUCTION MOTOR
404T/405T F1 ASSEMBLY

DRAWING #: MDSLV001-08
REV. DATE: 08/16/17 REV. #: 3 PER.: J. HOCK
REV. DESCRIP.: CHANGED DRAWING TABLE FORMAT

Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

TOSHIBA

TYPICAL MOTOR PERFORMANCE DATA

Model: 1004SDSR41A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	4	1775	405T	230/460	60	3	231/116

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	95.4	B	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	100	74.6	115.7	95.6	84.6
¾ Load	75.00	55.9	91.0	95.2	81.0
½ Load	50.00	37.3	69.1	93.9	72.1
¼ Load	25.00	18.6	52.3	89.2	50.1
No Load			38.8		3.6
Locked Rotor			725		34.6

Torque				Rotor wk² Inertia
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	(lb-ft²)
296	215	175	310	25.95

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
16	8	75	6317C3	6313C3	

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

Motor Options:
Product Family:EQP Global SD
Mounting:Footed,Shaft:T Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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

Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1
Engr. Date	11/15/2018	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019

Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

TOSHIBA

TYPICAL MOTOR PERFORMANCE DATA

Model: 1004SDSR41A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
75	55	4	1475	405T	190/380	50	3	213/107

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	94.6	B	H	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	75	55.9	106.6	94.4	84.4
¾ Load	56.25	41.9	84.7	93.9	80.1
½ Load	37.50	28.0	65.3	92.4	70.3
¼ Load	18.75	14.0	50.8	87.1	47.9
No Load			39.3		3.1
Locked Rotor			722		34.4

Torque				Rotor wk² Inertia
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	(lb-ft²)
267	225	170	310	25.95

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight
Cold	Hot		DE	NDE	(lbs)
20.4	11.2	75	6317C3	6313C3	

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

Motor Options:
Product Family:EQP Global SD
Mounting:Footed,Shaft:T Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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

Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1
Engr. Date	10/31/2018	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019

Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

TOSHIBA

SPEED TORQUE/CURRENT CURVE

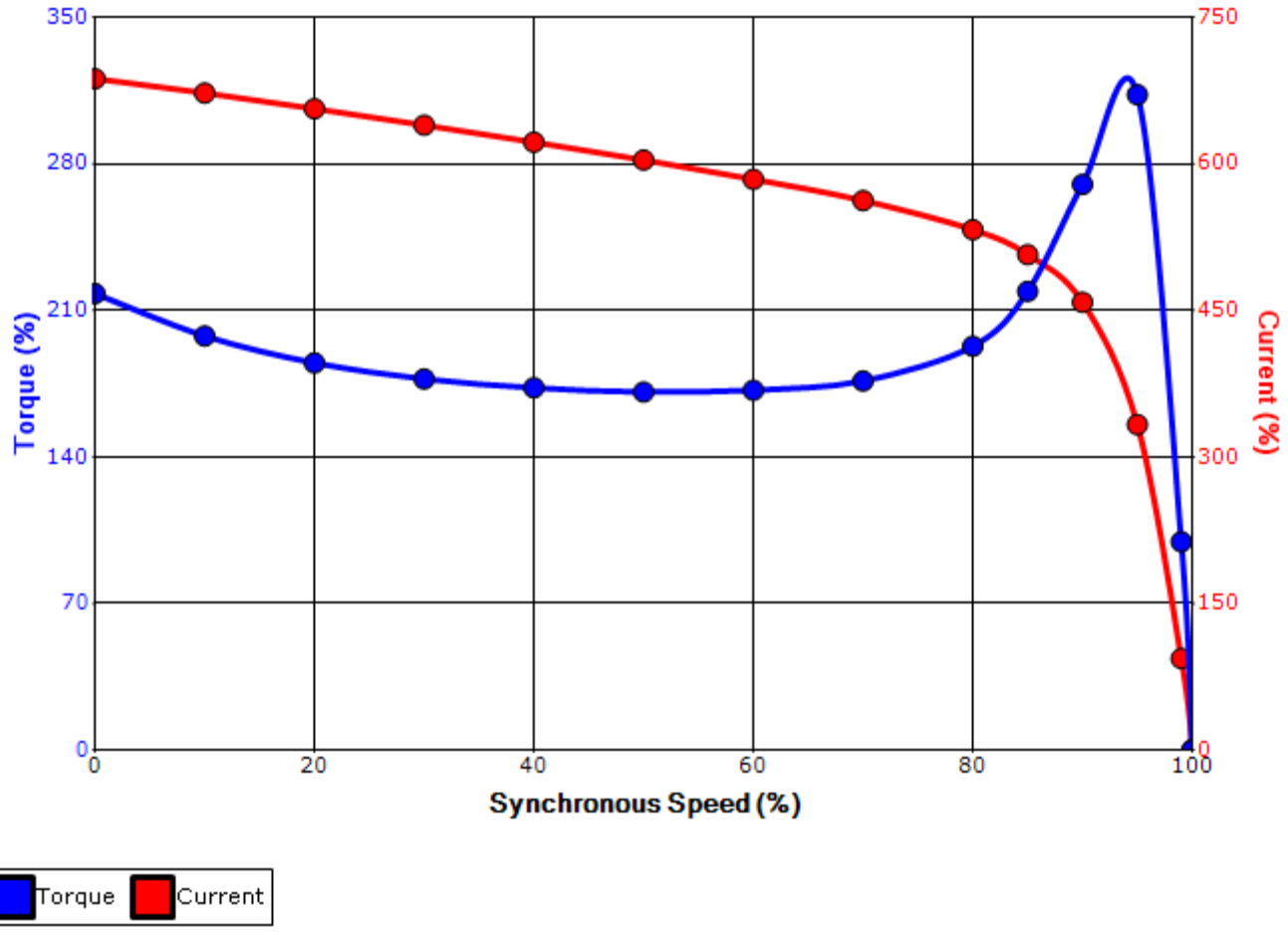
Model: 1004SDSR41A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	4	1775	405T	230/460	60	3	231/116

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	95.4	B	G	40 C

Locked Rotor Amps	Rotor wk² Inertia (lb-ft²)	Torque			
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)
725	25.95	296	215	175	310

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	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1
Engr. Date	11/15/2018	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019

Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

TOSHIBA

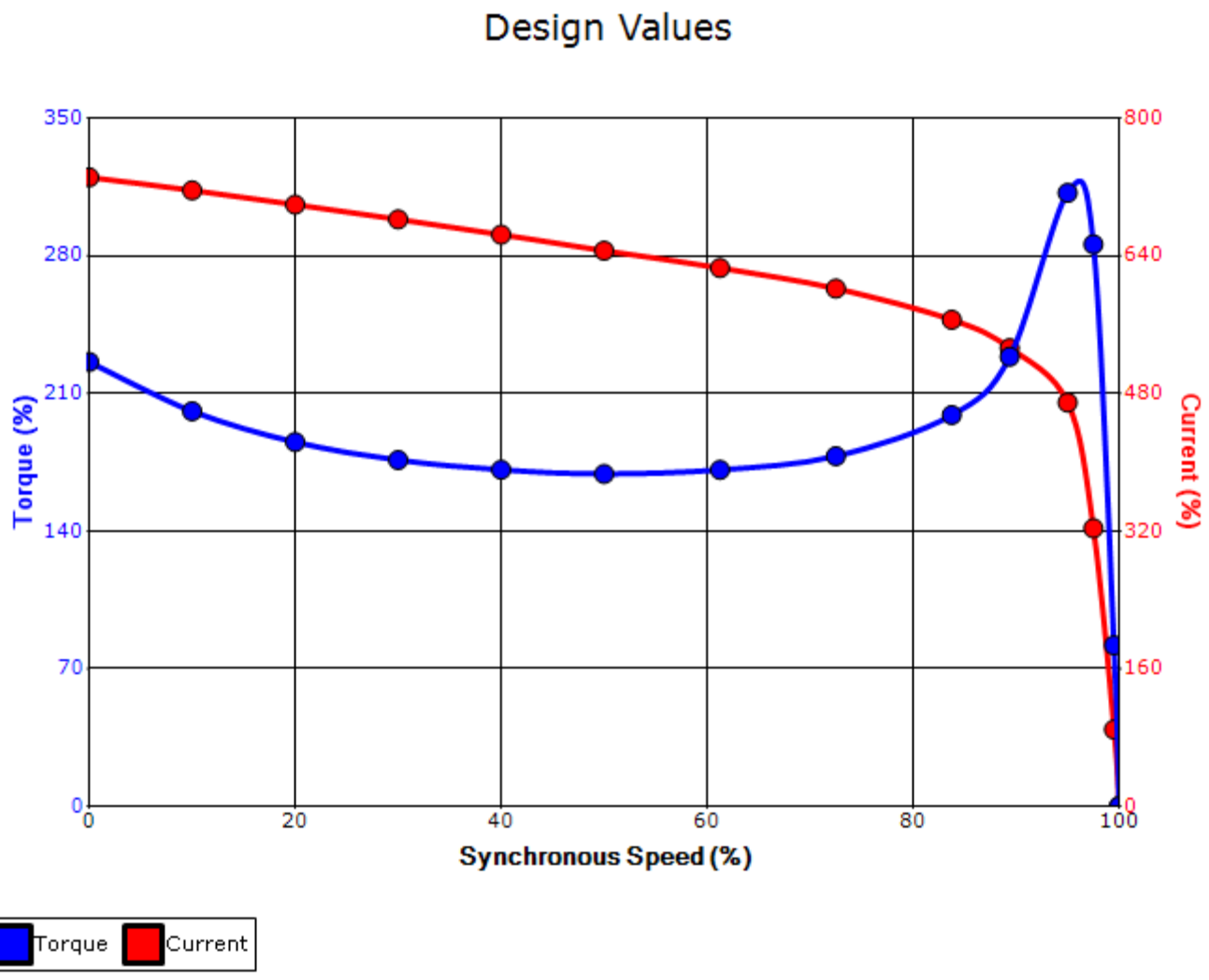
SPEED TORQUE/CURRENT CURVE

Model: 1004SDSR41A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
75	55	4	1475	405T	190/380	50	3	213/107

Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	54	F	1.15	CONT	94.6	B	H	40 C

Locked Rotor Amps	Rotor wk² Inertia (lb-ft²)	Torque			
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)
722	25.95	267	225	170	310



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

Tag:

All characteristics are average expected values.

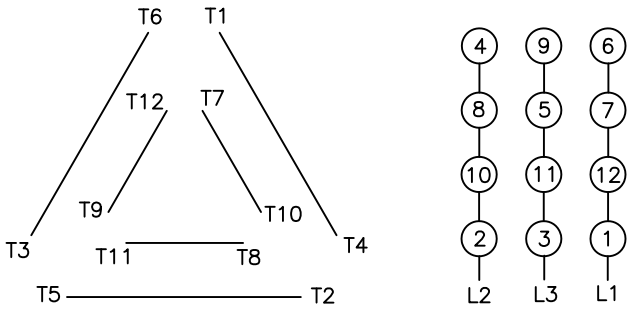
TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1
Engr. Date	10/31/2018	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019

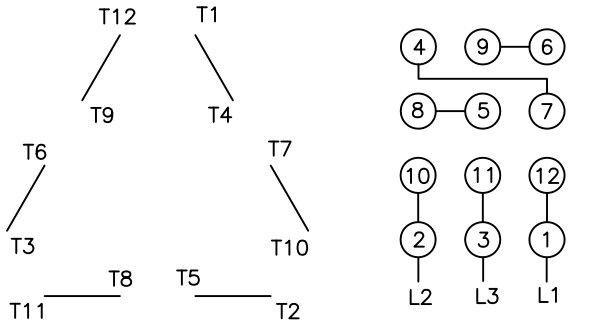
Motor Connection Diagrams
12 Leads

Across-the-Line Starting / Running Connections

Low Voltage Delta



High Voltage Delta



Switch L1 and L2 to reverse rotation

Suitable for Wye–Delta Starting and Limited Part–Winding–Starting.
Please Contact Toshiba International for specific connections.