



UNITS: INCHES  
 ROTATION FROM NDE  
  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 0.50x0.50x2.75 (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  CERTIFIED

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**EQP** 841  
 PETRO-CHEMICAL DUTY

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

DRAWING #: MDSL082-08  
 REV. DATE: 8/17/17 REV. #: 3 PER.: J. HOCK  
 REV. DESCRIP.: CHANGED DRAWING TABLE FORMAT

**TYPICAL MOTOR PERFORMANCE DATA**

Model: 1002XDSC41B-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	2	3560	405TS	575	60	3	90
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	94.1	B		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	100.00	74.6	89	94.6	88.0
¾ Load	75.00	55.9	69	93.8	86.6
½ Load	50.00	37.3	49	91.9	82.2
¼ Load	25.00	18.6	32	85.8	66.9
No Load			21.6		8.1
Locked Rotor			568		31.7

Torque				Rotor wk <sup>2</sup>
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	Inertia (lb-ft <sup>2</sup> )
148	195	125	245	17.36

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
15	6	85	6313C3	6313C3	

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

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

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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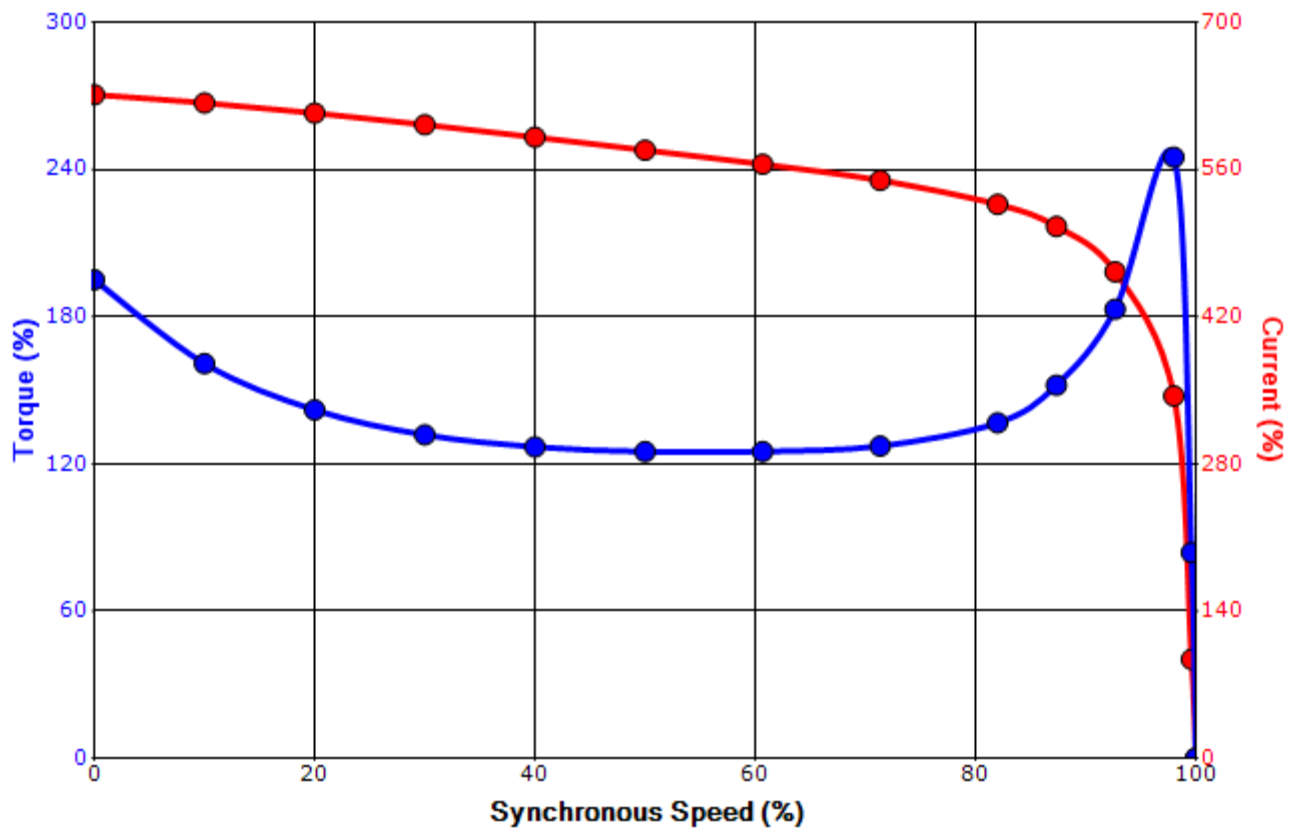
Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	10/17/2018	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**SPEED TORQUE/CURRENT CURVE**

Model: 1002XDSC41B-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
100	75	2	3560	405TS	575	60	3	90
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	94.1	B		40 C
Locked Rotor Amps	Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> )	Torque						
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)	Break Down (%)			
568	17.36	148	195	125	245			

**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	-

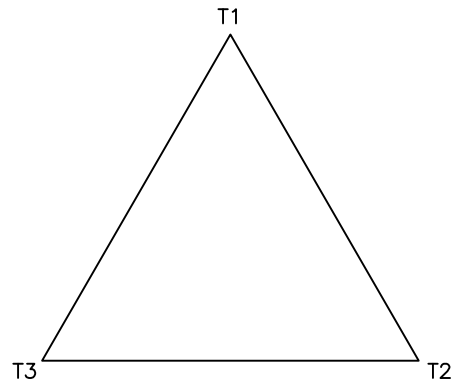
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Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	10/17/2018	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

**Motor Connection Diagram**  
3 Leads - Delta Connection



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.