

TECHNICAL INFORMATION

1. BEARING LUBRICATION DE: POLYREX EM
ODE: POLYREX EM
2. BEARING TYPE DE: SEE TABLE
ODE: 6318C3
3. WINDING TEMP. DETECTORS
NUMBER AND TYPE: 6xRTD(Pt0°C-100ohm)
LOCATION: IN STATOR SLOT
4. BEARING TEMP. DETECTORS
NUMBER AND TYPE: N/A
5. SPACE HEATER 1 PHASE
VOLTS: 120V WATTS: 240W
6. ROTATION: CCW VIEWED FROM NON DRIVE END
THIS MOTOR IS BI DIRECTIONAL
7. MOTOR PAINT COLOR: GREEN
8. APPROX. WEIGHT: 3500 Lbs
9. ACCESORIES:

DRIVE END BEARINGS		
BELT DRIVE APP.	DIRECT COUPLE APP.	
LS 4-8P	LS 6-8P	LS 4P
NU322C3	6322C3	6318C3

DRAWING LIST					
MAIN TERMINAL BOX 130P-7622-55W					
AUX TERMINAL BOX FOR					
SPACE HEATER	130P-7520-50				
R.T.D.	130P-7522-51				
THERMISTOR	-				
PRODUCTION #	-	0	FIRST ISSUE	ME	7/23/19
UNITS:	INCHES	NO.	REVISION	BY	DATE

MOTOR OUTLINE FOR THREE PHASE INDUCTION MOTOR

CUSTOMER NAME				P.O. NO.	MOTOR TAG NO.
OUTPUT HP	POLE 4-8	VOLTAGE 2.3/4k V	FREQUENCY Hz	FULL LOAD SPEED (min ⁻¹)	TOSHIBA MODEL NO.
TYPE	FORM	INS. CLASS F	RATING CONT.	FRAME S447/9T	S.F. ENCLOSURE TEFC
TOSHIBA INTERNATIONAL CORPORATION HOUSTON, TEXAS U.S.A.					
3rd ANGLE PROJ.	PREPARED BY: M.Easterbrook	DATE: 7/24/19	CHECKED BY: Eddie R	DATE: 8/6/19	DRAWING NO.: MDSL0072-42
					REV. 0

TYPICAL MOTOR PERFORMANCE DATA

Model: 1258XDAK41A-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
125	90	8	890	S449T	2300/4000	60	3	35/20
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	94.5	B		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	125.00	93.2	20	94.5	70.9
¾ Load	93.75	69.9	16.5	93.4	65.4
½ Load	62.50	46.6	13.5	90.9	54.7
¼ Load	31.25	23.3	11.4	83.4	35.3
No Load			10.7		3.7
Locked Rotor			128		19.6

Torque				Rotor wk ² Inertia (lb-ft ²)
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	
738	125	125	240	176.64

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
35	15	83	6322C3	6318C3	

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

Motor Options:
Product Family:EQP Global 841
Mounting:Footed,Shaft:T Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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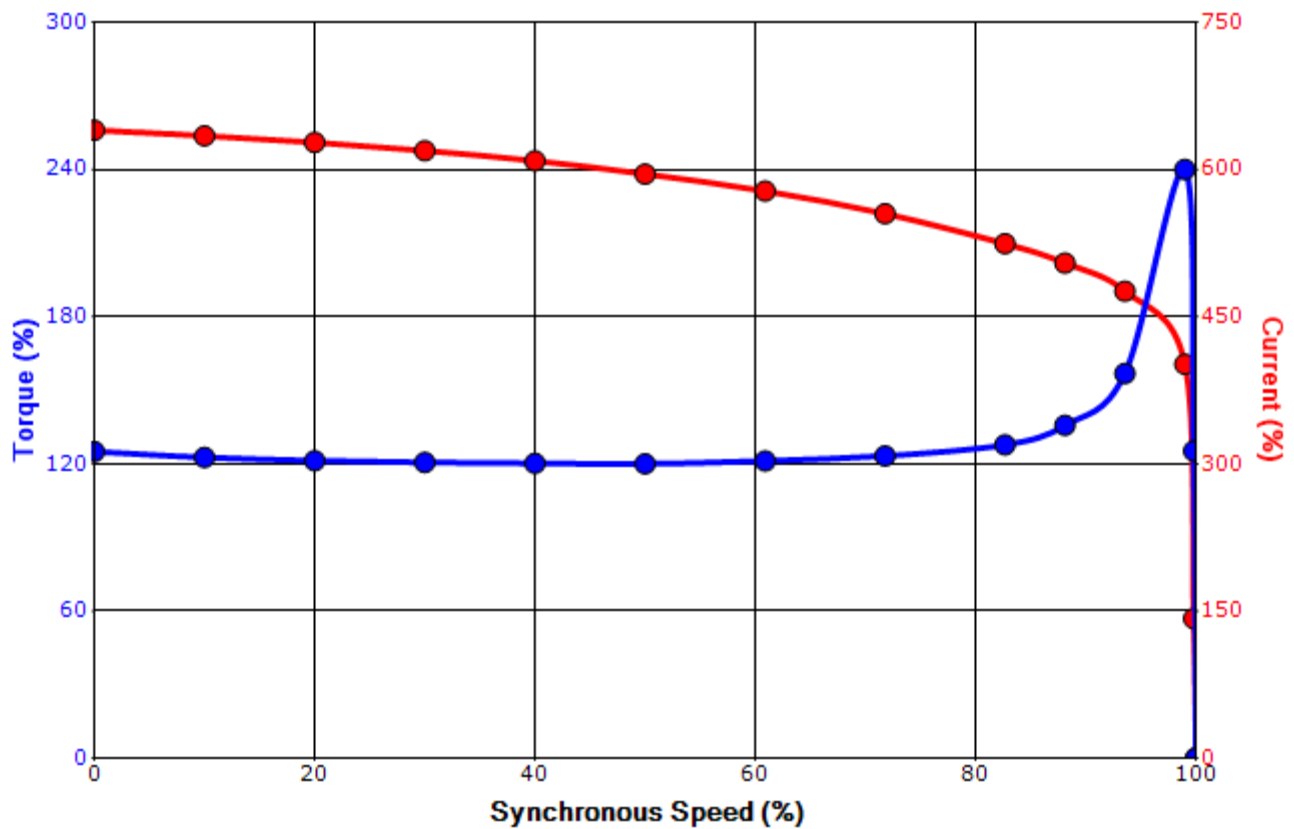
Engineering	SSuryani	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	12/18/2019	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

SPEED TORQUE/CURRENT CURVE

Model: 1258XDAK41A-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
125	90	8	890	S449T	2300/4000	60	3	35/20
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	94.5	B		40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
128	176.64	738	125	125			240	

Design Values



Customer		wk ² Load Inertia (lb-ft ²)	-
Customer PO		Load Type	-
Sales Order		Voltage (%)	100
Project #		Accel. Time	-

Tag:

All characteristics are average expected values.

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Engineering	SSuryani	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	12/18/2019	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

Motor Connection Diagrams 6 Leads

Across-the-Line Starting / Running Connections

Low Voltage – Delta



High Voltage – Wye



Switch L1 and L2 to reverse rotation