



Issued Date 6/28/2024		Transmit #	
Issued By	dschoeck	Issued Rev	

TYPICAL MOTOR PERFORMANCE DATA

Model: 2504XDAK41A-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
250	186	4	1790	S449T	2300/4000	60	3	64/37
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	95.0	В		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	250.00	186.4	37	94.9	76.5
¾ Load	187.50	139.8	29	94.0	73.7
½ Load	125.00	93.2	21	92.0	66.6
1/4 Load	62.50	46.6	16.2	86.0	48.1
No Load			16.1		4.5
Locked Rotor			211		24.7

Torque					
Full Load	Locked Rotor	Pull Up	Break Down	Inertia	
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)	
734	165	125	250	151.18	

Safe Stall Time(s) Sound		Bearings*		Approx. Motor Weight	
Cold	Hot	Pressure	Dearnigs		Approx. Motor Weight
Colu	1100	dB(A) @ 1M	DE	NDE	(lbs)
35	15	91	6318C3	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.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.							
Engineering	SSuryani	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0		
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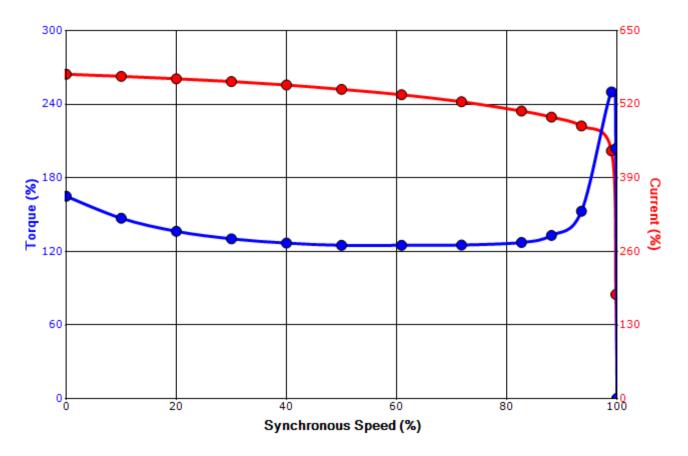
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SPEED TORQUE/CURRENT CURVE

Model: 2504XDAK41A-A

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
250	186	4	1790	S449T	2300/4000	60	3	64/37
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	95.0	В		40 C
Locked Rotor	Rotor wk ²				Torque			
Amps	Inertia	Full Load	Locked Rotor		Pull Up		Break	Down
Amps	(lb-ft²)	(lb-ft)	(%)		(%)		(%	%)
211	151.18	734	16	5	125		25	50

Design Values





Customer	wk² Load Inertia (Ib-f	2) -
Customer PO	Load Typ	е -
Sales Order	Voltage (%	6) 100
Project #	Accel. Tim	е -

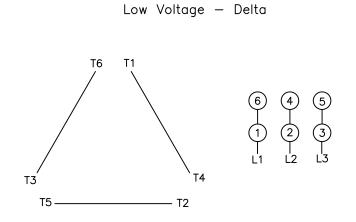
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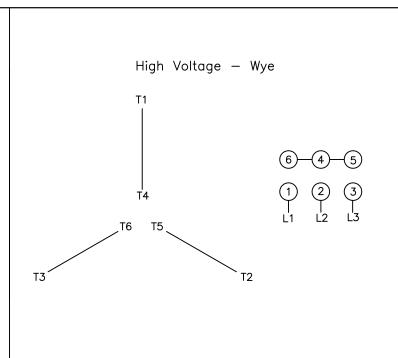
All characteristics are average expected values.

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Motor Connection Diagrams 6 Leads

Across-the-Line Starting / Running Connections





Switch L1 and L2 to reverse rotation



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SPARE PARTS LIST*

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250	186	4	1790	S449T	2300/4000	60	3	64/37
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	56	F	1.15	CONT	95.0	В		40 C

 Bearings DE
 6318C3 / 90BC03J3OX

 Bearings NDE
 6318C3 / 90BC03J3OX

*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.

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