



Leading Innovation >>>

TYPICAL MOTOR PERFORMANCE DATA

Issued Date

Issued By

6/19/2025

dschoeck

Transmit #

Issued Rev

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
50	37	4	1777	326TS	230/460	60	3	116/58
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA	NEMA	kVA Code	Ambient
TEEC	FF		1 15	CONT	Nom. Eff.	Design		(° C) 40 C
TEFC	55	F	1.15	CONT	94.5	В		40 C
oad	HP	kW	Ampe	eres	Efficiency	/ (%)	Power F	actor (%)
ull Load	50.00	37.3	5		94.5			5.5
Load	37.50	28.0	4	5	94.0		82	2.2
2 Load	25.00	18.6	34		92.3			1.0
Load	12.50	9.3	25		86.8		52	2.6
lo Load			19					.6
ocked Rotor			39	4			30).5
			Torque			-		Rotor wk ²
Full Lo			d Rotor		ull Up		ak Down	Inertia
(lb-ft 148			F LT) 10		5 FLT) 150	(%	6 FLT) 300	(lb-ft²) 11.60
Cold	Hot	Pressure	Bearings* Approx. DE NDE				Approx. MC	Jul weight
	not	dB(A) @ 1M	D		NDE		(1)	us)
35 Bearings are the only re	15	dB(A) @ 1M -	DI 6312		NDE 6312Z(-	9 49
Bearings are the only re Notor Options: Product Family:EQF	15 commended spare	-					-	-
Bearings are the only re Motor Options: Product Family:EQF Mounting:Footed,Sh Customer Customer PO	15 commended spare	-					-	-
Bearings are the only re Totor Options: Product Family:EQF Nounting:Footed,Sh Sustomer Sustomer PO Sales Order	15 commended spare	-					-	-
Bearings are the only re lotor Options: roduct Family:EQF lounting:Footed,Sh ustomer ustomer PO ales Order roject #	15 commended spare	-					-	-
Bearings are the only re Motor Options: Product Family:EQF Mounting:Footed,Sh Customer	15 commended spare	-					-	-
Bearings are the only re lotor Options: roduct Family:EQF lounting:Footed,Sh ustomer ustomer PO ales Order roject # ag:	15 ecommended spare P Global SD haft:TS Shaft		6312	ZC3	631220	23	-	-
earings are the only re fotor Options: froduct Family:EQF founting:Footed,Sh ustomer ustomer PO ales Order roject # ag:	15 ecommended spare P Global SD haft:TS Shaft	e part(s).	6312	ZC3	6312ZC	23	6	49
Bearings are the only re Notor Options: Product Family:EQF Nounting:Footed,Sh Sustomer Sustomer PO Sales Order Project #	15 commended spare P Global SD haft:TS Shaft		6312	ZC3	6312ZC	C3	-	-



novation >>>

Issued By dschoeck TYPICAL MOTOR PERFORMANCE DATA

Issued Date

6/19/2025

Transmit #

Issued Rev

HP								
	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
50	37	4	1465	326TS	190/380	50	3	140/70
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	92.7	В		40 C
oad	HP	kW	Ampe		Efficienc		Power Fa	
ull Load	50.00	37.3	70		93.0		86	
Load	37.50	28.0	5		92.9		85	
2 Load	25.00 12.50	18.6 9.3	39		91.8 87.5			0.0 0.0
Load	12.50	9.3			07.5			
o Load ocked Rotor			18 43				4.	.5).5
Full Loa (Ib-ft) 179			Torque 1 Rotor FLT) 65	Pul (%	II Up FLT) 15	_	ak Down % FLT) 230	Rotor wk ² Inertia (Ib-ft ²) 11.60
Safe Stall T Cold	ïme(s) Hot	Sound Pressure		Bearing			Approx. Mo	otor Weight
Cold	ΠΟΙ	dB(A) @ 1M	DI	E	DE NDE			
								os)
30 Bearings are the only red	10 commended spare	- e part(s).	6312	ZC3	631220	C3	64	49
	commended spare		6312	ZC3	631220	03	64	
Bearings are the only red Iotor Options: Product Family:EQP Mounting:Footed,Sh: Sustomer	commended spare		6312	ZC3	631220	C3	64	
Bearings are the only reconstruction of the only	commended spare		6312	ZC3	631220	C3	64	
earings are the only rec otor Options: roduct Family:EQP tounting:Footed,Sha ustomer ustomer PO ales Order	commended spare		6312	ZC3	631220	C3	64	
iearings are the only red lotor Options: roduct Family:EQP founting:Footed,Sha ustomer ustomer PO ales Order roject #	commended spare		6312	ZC3	631220	C3	64	
ustomer ustomer PO ales Order roject # ag:	commended spare	e part(s).					64	
Bearings are the only reconsection of the only	commended spare	e part(s).				(AS U.S.A.	64	



HP

50

Enclosure

TEFC

Locked Rotor

Amps

394

350

280

(%) anbio 140

70

ᅆ

Model: 0504SDSR41B-P

kW

37

IP

55 Rotor wk²

Inertia

(lb-ft²)

11.60

4 1777 326TS 230/460 60 3 116/58			1	0/40/000	-		
SPEED TORQUE/CURRENT CURVE SPEED TORQUE/CURRENT CURVE Pole FL RPM Frame Voltage Hz Phase FL Ange 4 1777 326TS 230/460 0 3 116/50 Ins. Class S.F. Duty NEMA NEMA NEMA Available F 1.15 CONT 94.5 B 40.0 Torque Full Load Locked Rotor Pull Up Break Down (b-ft) (%) (%) (%) (%) 148 210 150 300							
Pole FL RPM Frame Voltage Hz Phase FL Amp 4 1777 326TS 230/460 60 3 116/56 Ins. Class S.F. Duty NEMA NEMA Design KVA Code Ambier (°C) F 1.15 CONT 94.5 B 40C Torque Full Load Locked Rotor Pull Up Break Down (%) (1b-ft) (%) (%) (%) 300 Locked Rotor Pull Up Break Down (%) (148 210 150 300			Issued By	dschoec	K	Issued Rev	
4 1777 326TS 230/460 60 3 116/50 Ins. Class S.F. Duty NEMA Nom. Eff. NEMA Design KVA Code Ambier (°C) F 1.15 CONT 94.5 B 40 C Torque Full Load (Ib-ft) Locked Rotor (%) Pull Up (%) Break Down (%) 148 210 150 300	, ,	PEED TORQ	UE/CURREN	IT CURVE			
Ins. Class S.F. Duty NEMA Nom. Eff. Design kVA Code Ambier (°C) F 1.15 CONT 94.5 B 40 C Torque Full Load Locked Rotor Pull Up Break Down (%) 148 210 150 300 Design Values	Pole	FL RPM			Hz	Phase	FL Amps
Ins. Class S.F. Duty Nom. Eff. Design kVA Code (*C) F 1.15 CONT 94.5 B 40 C Torque Full Load Locked Rotor Pull Up Break Down (lb-ft) (%) (%) (%) (%) 148 210 150 300	4	1777	326TS	230/460	60	3	116/58
Full Load (lb-ft) Locked Rotor (%) Pull Up (%) Break Down (%) 148 210 150 300 Design Values	Ins. Class	S.F.	Duty			kVA Code	Ambient (°C)
Full Load (lb-ft) Locked Rotor (%) Pull Up (%) Break Down (%) 148 210 150 300 Design Values 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	F	1.15	CONT	94.5	В		40 C
Full Load (lb-ft) Locked Rotor (%) Pull Up (%) Break Down (%) 148 210 150 300 Design Values 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-	-	Torque			
(tb-ft) (%) (%) (%) 148 210 150 300 Design Values	Full Load	Locked	d Rotor			Break	Down
148 210 150 300 Design Values				-			
Design Values							
300							50 -
150		• •				3	rrent (%)
						1	50
20 40 60 80 100							

Synchronous Speed (%)

Torque Current

Customer		wk ² Load Inertia (Ib-ft ²)	-
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	Jrodrigu	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0				
Engr. Date	7/25/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011				



HP

50

Enclosure

TEFC

Locked Rotor

Amps

433

300

240

Model: 0504SDSR41B-P

kW

37

IP

55

Rotor wk²

Inertia

(lb-ft²)

11.60

Pole

4

Ins. Class

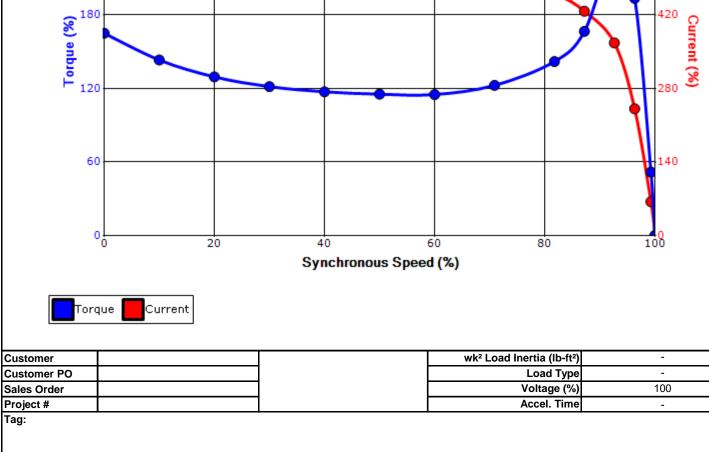
F

Full Load

(lb-ft)

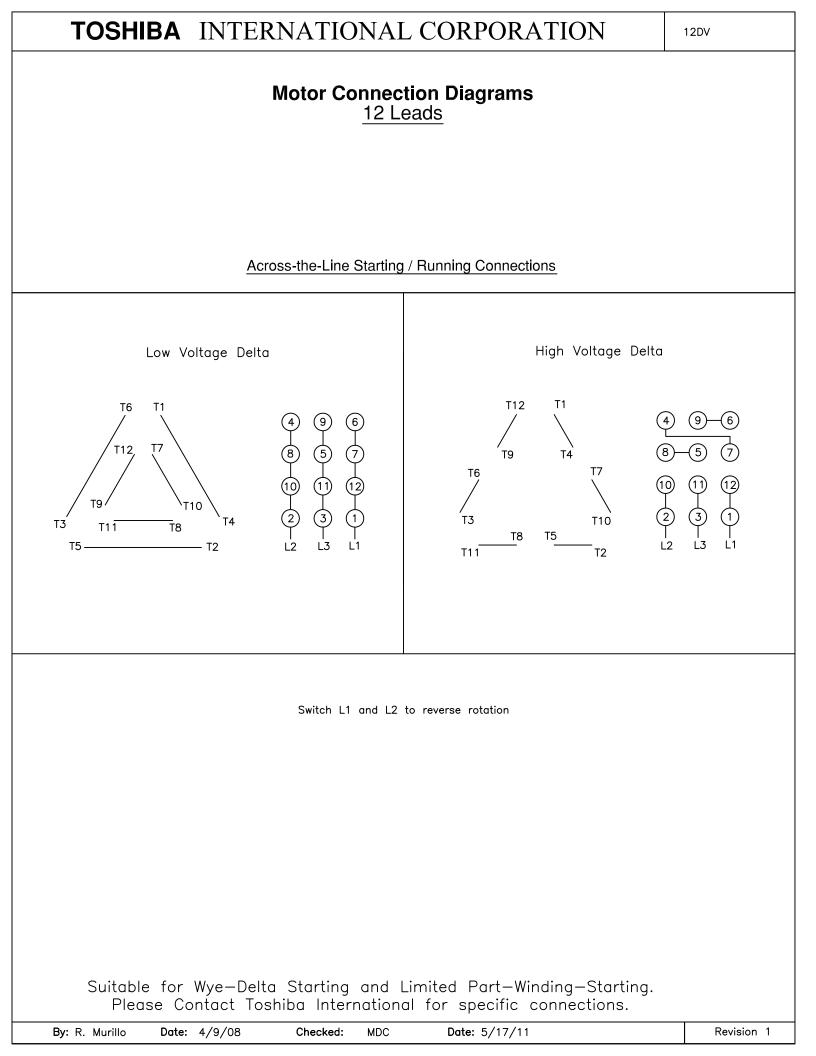
179

		Issued Date	6/19/202	25	Transmit #		
	Issued By		dschoed	ck	Issued Rev		
S	PEED TORQ	UE/CURREN	IT CURVE				
	FL RPM	Frame	Voltage	Hz	Phase	FL Amps	
	1465	326TS	190/380	50	3	140/70	
	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)	
	1.0	CONT	92.7	В		40 C	
			Torque				
	Locked	Rotor	Pull Up	2	Break Down		
	(%	6)	(%)		(%)		
	16	65	115		23	30	
						'00	
					^	60	
						20	
						Current (%)	
					2	80 🛎	



All characteristics are average expected values.

	0 1							
TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	Jrodrigu	Doc. Written By	D. Suarez	Doc.#/Rev	MPCF-1121 / 0			
Engr. Date	8/1/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



TOSH	IIBA			Issued Date: Issued By:	6/19/20 dschoe	-	Transmit #: Issued Rev:	
-	• 0504SDSR41		SPAR	E PARTS LIS	T*			
HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
50	37	4	1777	326TS	230/460	60	3	116/58
50	37	-		020.0	200/100	00	v	110/00
50 Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)

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

Bearings NDE

6312ZC3 / 60BC03JP3OX

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.								
TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	Jrodrigu	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1125 / 0			
Engr. Date	7/25/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			