

.500 +.002

29.8

11.50

3.50

Ø17.3 Ø14.00

Ø 12.500

15.0



Leading Innovation >>>

TYPICAL MOTOR PERFORMANCE DATA

Issued Date

Issued By

6/19/2025

dschoeck

Transmit #

Issued Rev

-	0502SDSR44E	D-P			•			
HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
50	37	2	3555	326TSC	230/460	60	3	114/57
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	93.0	В		40 C
oad	HP	kW	Amp		Efficiency	ı (%)		actor (%)
ull Load	50.00	37.3	5		93.9			7.1
Load	37.50	28.0	4		93.3			5.3
2 Load	25.00	18.6	3		91.6).0
Load	12.50	9.3	2		85.8			2.7
lo Load			16					.5 7.8
ocked Rotor	_		39	14			57	.0
		-	Torqu			-	_	Rotor wk ²
Full Loa			d Rotor		ull Up		ak Down	Inertia
(lb-ft)		-	FLT)		FLT)	(%	% FLT)	(lb-ft²)
73.9		2	55		195		320	6.39
Cold	Hot	Pressure			igs*		Approx. Mo	-
14	7	dB(A) @ 1M -	D 6312	E	NDE 6312ZC	23	(Ik	os) 26
	7 commended spare	dB(A) @ 1M -		E	NDE	23	(Ik	os)
14 Bearings are the only red lotor Options: Product Family:EQP Mounting:C-Face Ro	7 commended spare	dB(A) @ 1M -		E	NDE	23	(Ik	os)
14 Bearings are the only red Iotor Options: Product Family:EQP Nounting:C-Face Ro	7 commended spare	dB(A) @ 1M -		E	NDE	23	(Ik	os)
14 Bearings are the only red Iotor Options: Product Family:EQP Aounting:C-Face Rc	7 commended spare	dB(A) @ 1M -		E	NDE	23	(Ik	os)
14 Bearings are the only red Iotor Options: Product Family:EQP Aounting:C-Face Rd Sustomer ustomer PO ales Order	7 commended spare	dB(A) @ 1M -		E	NDE	23	(Ik	os)
14 Bearings are the only red lotor Options: roduct Family:EQP founting:C-Face Ro dounting:C-Face Ro stomer PO ales Order roject #	7 commended spare	dB(A) @ 1M -		E	NDE	23	(Ik	os)
14 iearings are the only red iotor Options: roduct Family:EQP founting:C-Face Ro iounting:C-Face Ro	7 commended spare	dB(A) @ 1M -		E	NDE	23	(Ik	os)
14 earings are the only red otor Options: roduct Family:EQP lounting:C-Face Ro lounting:C-Face Ro austomer PO ales Order roject #	7 commended spare 9 Global SD bund,Shaft:TS S	dB(A) @ 1M -	6312	E ZC3	NDE 6312ZC		(Ik	os)
14 earings are the only red otor Options: roduct Family:EQP lounting:C-Face Rd ustomer ustomer PO ales Order roject # ag:	7 commended spare 9 Global SD bund,Shaft:TS S	dB(A) @ 1M -	6312	E ZC3	NDE 6312ZC	AS U.S.A.	(2 6
14 Bearings are the only red Iotor Options: Product Family:EQP	7 commended spare 9 Global SD bund,Shaft:TS S	dB(A) @ 1M -	6312	E ZC3	HOUSTON, TEX	AS U.S.A.	(Ik	os)



Leading Innovation >>>

TYPICAL MOTOR PERFORMANCE DATA

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HP 50	kW 37	Pole 2	FL RPM 2905	Frame 326TSC	Voltage 190/380	Hz 50	Phase 3	FL Amps 144/72
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA	NEMA	kVA Code	Ambient
					Nom. Eff.	Design		(°C)
TEFC	55	F	1.0	CONT	90.2	В		40 C
oad	HP	kW	Amp		Efficienc	y (%)	Power Fa	. ,
ull Load	50.00	37.3	7		90.1		87	
Load	37.50	28.0		4	90.1		87	
2 Load	25.00	18.6 9.3	3		89.1 84.6		84 70	
Load	12.50	9.3		-	04.0			
o Load ocked Rotor		-	13	3.2			6. 34	
			Torqu					Rotor wk ²
Full Lo			d Rotor		ull Up		ak Down	Inertia
(lb-ft 90.4			FLT) 70		5 FLT) 145	(%	% FLT) 200	(lb-ft²) 6.39
	11-4	Pressure			-		Approx. Mo	•
Cold 27	Hot 10	dB(A) @ 1M -	D 6312		NDE 6312Z0		(Ib	-
27 Bearings are the only re Motor Options: Product Family:EQF	10 ecommended spare	dB(A) @ 1M -					(Ib	s)
27 Bearings are the only re Notor Options: Product Family:EQF	10 ecommended spare	dB(A) @ 1M -					(Ib	s)
27 Bearings are the only re lotor Options: Product Family:EQF Nounting:C-Face R	10 ecommended spare	dB(A) @ 1M -					(Ib	s)
27 Bearings are the only re lotor Options: roduct Family:EQF founting:C-Face R	10 ecommended spare	dB(A) @ 1M -					(Ib	s)
27 Bearings are the only re lotor Options: roduct Family:EQF Aounting:C-Face R ustomer ustomer PO ales Order	10 ecommended spare	dB(A) @ 1M -					(Ib	s)
27 Bearings are the only re	10 ecommended spare	dB(A) @ 1M -					(Ib	s)
27 Bearings are the only re Notor Options: Product Family:EQF	10 ecommended spare	dB(A) @ 1M -					(Ib	s)
27 earings are the only re otor Options: roduct Family:EQF lounting:C-Face R ustomer ustomer PO ales Order roject #	10 ecommended spare	dB(A) @ 1M -					(Ib	s)
27 earings are the only re otor Options: roduct Family:EQF lounting:C-Face R ustomer ustomer PO ales Order roject #	10 ecommended spare P Global SD ound,Shaft:TS s	dB(A) @ 1M -	6312	22C3	631220	23	(Ib	s)
27 Bearings are the only re lotor Options: roduct Family:EQF founting:C-Face R ustomer ustomer ustomer PO ales Order roject #	10 ecommended spare P Global SD ound,Shaft:TS s	dB(A) @ 1M -	6312	22C3	6312Z	C3	(Ib	s)



HP

50

Enclosure

TEFC

Locked Rotor

Amps

394

350

280

(%) anbjog 140

70

ᅆ

Model: 0502SDSR44B-P

kW

37

IP

55 Rotor wk²

Inertia

(lb-ft²)

6.39

		Issued Date	6/19/20	25	Transmit #	
		Issued By	dschoe	ck	Issued Rev	
S	PEED TORQ	UE/CURREN	T CURVE			
Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	3555	326TSC	230/460	60	3	114/57
Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
F	1.15	CONT	93.0	В		40 C
			Torque			
Full Load	Locked	Rotor	Pull U	р	Break	Down
(lb-ft)	(%	6)	(%)		(%)
73.9	25	55	195		32	0
	•					60
	• •	•			5	⁷⁰ Current (%)
						90
					- 1	

100

80

40 60 Synchronous Speed (%)

Torque Current

20

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

All characteristics are av	ni characteristics are average expected values.								
TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.									
Engineering	aguerrettaz	Doc. Written By	D. Suarez	Doc.#/Rev	MPCF-1121 / 0				
Engr. Date	8/12/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011				



HP

50

Enclosure

TEFC

Locked Rotor

Amps

371

250

200

(%) anbio 100 100

50

ᅆ

Model: 0502SDSR44B-P

kW

37

IP

55 Rotor wk²

Inertia

(lb-ft²)

6.39

		Issued Date	6/19/202	25	Transmit #	
		Issued By	dschoed	:k	Issued Rev	
S	PEED TORQ	UE/CURREN	IT CURVE			
Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	2905	326TSC	190/380	50	3	144/72
Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
F	1.0	CONT	90.2	В		40 C
	-		Torque		_	
Full Load		d Rotor	Pull Up)	Break	
(lb-ft) 90.4		%) 70	(%) 145		(% 20	
		•••			4	00 80 ⁶⁰ 2
						40 Current (%)
20	40	e	50	80	100	1

Torque Current

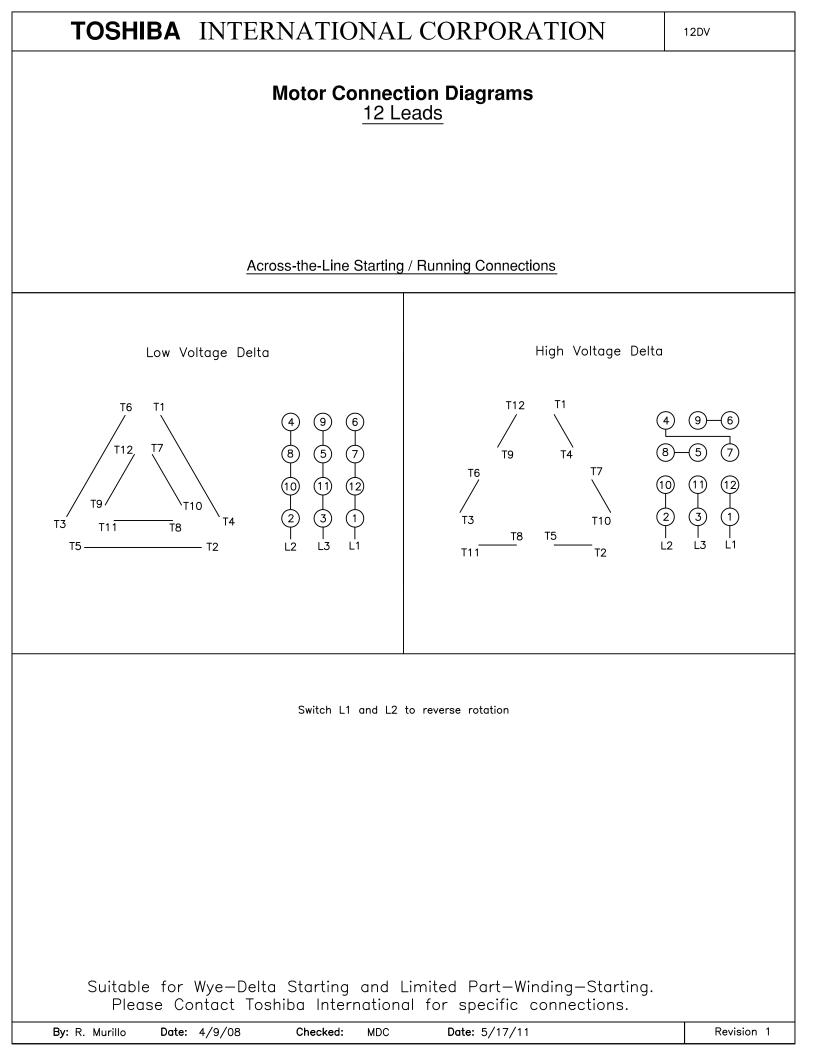
Customer	wk² L	oad Inertia (Ib-ft²) -	
Customer PO		Load Type -	
Sales Order		Voltage (%) 100	
Project #		Accel. Time -	

Synchronous Speed (%)

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 / 0				
Engr. Date	3/19/2021	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011				



TOSHIBA Leading Innovation >>>				Issued Date:	6/19/20)25	Transmit #:			
				Issued By:	dschoe	eck	Issued Rev:			
			SPAR	E PARTS LIS	T*					
Model	: 0502SDSR44	B-P								
HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps		
50	37	2	3555	326TSC	230/460	60	3	114/57		
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)		
TEFC	55	F	1.15	CONT	93.0	В		40 C		
Bearings DE	6312ZC3 / 60	6312ZC3 / 60BC03JP3OX								
Bearings NDE	6312ZC3 / 60	12ZC3 / 60BC03JP3OX								

*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 av	All characteristics are average expected values.									
TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.										
Engineering		Doc. Written By	D. Suarez	Doc.#/Rev	MPCF-1125 / 0					
Engr. Date	8/12/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011					