

#### 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

0.500"x 0.500"x 3.88"

(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

X CERTIFIED



TOTALLY ENCLOSED FAN COOLED
ROUND BODY C-FACED
3 PHASE INDUCTION MOTOR
324TC-326TC F1 ASSEMBLY

DRAWING #:	MDSLV205-06					
REV. DATE:	07/09/18	REV. #:	1	PER.: M. O'DOWD		
REV. DESCRIP.:						



Issued Date	6/19/2025	Transmit #	
Issued By	dschoeck	Issued Rev	

### **TYPICAL MOTOR PERFORMANCE DATA**

Model: 0504SDSR44A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
50	37	4	1777	326TC	230/460	60	3	116/58
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	94.5	В		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	50.00	37.3	57	94.5	85.5
¾ Load	37.50	28.0	45	94.0	82.2
½ Load	25.00	18.6	34	92.3	74.0
∕₄ Load	12.50	9.3	25	86.8	52.6
No Load			19.2		4.6
Locked Rotor			394		30.5

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
148	210	150	300	11.60			

Safe Stall Time(s)		Sound Bearings*		Approx. Motor Weight	
Cold	Cold Hot Pressure		Bearing	Approx. Motor Weight	
Cold Hot	dB(A) @ 1M	DE	NDE	(lbs)	
35	15	-	6312ZC3	6312ZC3	653

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

Motor Options: Product Family:EQP Global SD Mounting:C-Face Round,Shaft:T Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	Jrodrigu	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0			
Engr. Date	7/25/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



Issued Date	Issued Date 6/19/2025		
Issued By	dschoeck	Issued Rev	

### **TYPICAL MOTOR PERFORMANCE DATA**

Model: 0504SDSR44A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
50	37	4	1465	326TC	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

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	50.00	37.3	70	93.0	86.9
¾ Load	37.50	28.0	53	92.9	85.0
½ Load	25.00	18.6	39	91.8	79.0
¼ Load	12.50	9.3	27	87.5	60.0
No Load			18.8		4.5
Locked Rotor			433		29.5

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
179	165	115	230	11.60			

Safe Stall Time(s)		Sound	Bearin	Approx. Motor Weight		
Cold	Hot	Pressure	Bearings*		Approx. wiotor weight	
Cold Hot		dB(A) @ 1M	DE	NDE	(lbs)	
30	10	-	6312ZC3	6312ZC3 6312ZC3		

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

Motor Options: Product Family:EQP Global SD Mounting:C-Face Round,Shaft:T Shaft

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TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.							
Engineering	Jrodrigu	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0		
Engr. Date	8/1/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011		



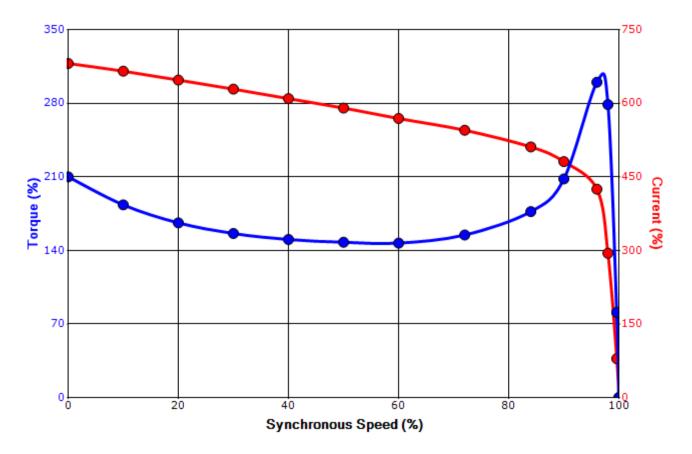
Issued Date	6/19/2025	Transmit #	
Issued By	dschoeck	Issued Rev	

# SPEED TORQUE/CURRENT CURVE

Model: 0504SDSR44A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
50	37	4	1777	326TC	230/460	60	3	116/58
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	94.5	В		40 C
Looked Beton	Rotor wk <sup>2</sup>				Torque		40 C	
Locked Rotor Amps	Inertia	Full Load	Locked	Rotor	Pull Up	)	Break	Down
Amps	(lb-ft²)	(lb-ft)	(%)		(%)		(%	<b>6</b> )
394	11.60	148	21	0	150		30	00

# 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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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		



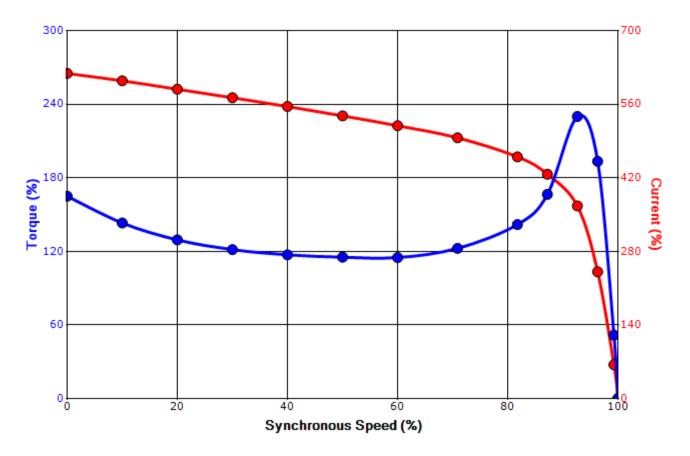
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Issued By	dschoeck	Issued Rev	

# SPEED TORQUE/CURRENT CURVE

Model: 0504SDSR44A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
50	37	4	1465	326TC	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
Locked Rotor	Rotor wk <sup>2</sup>				Torque			
Amps	Inertia	Full Load	Locked	Rotor	Pull Up		Break	Down
Amps	(lb-ft²)	(lb-ft)	(%)		(%)		(%	<b>6</b> )
433	11.60	179	16	5	115		23	30

# Design Values





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

Tag:

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		

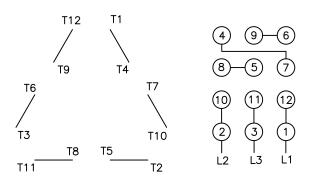
# Motor Connection Diagrams <a href="mailto:12">12 Leads</a>

## Across-the-Line Starting / Running Connections

Low Voltage Delta



High Voltage Delta



Switch L1 and L2 to reverse rotation

Suitable for Wye-Delta Starting and Limited Part-Winding-Starting. Please Contact Toshiba International for specific connections.

By: R. Murillo Date: 4/9/08 Checked: MDC Date: 5/17/11 Revision 1



Issued Date:	6/19/2025	Transmit #:	
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#### **SPARE PARTS LIST\***

Model: 0504SDSR44A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
50	37	4	1777	326TC	230/460	60	3	116/58
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	94.5	В		40 C

 Bearings DE
 6312ZC3 / 60BC03JP3OX

 Bearings NDE
 6312ZC3 / 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 #	

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TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.									
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