

UNITS: INCHES		NOTES:	
ROTATION FROM NDE		1. MAIN CONDUIT BOX MAY BE ROTATED IN 90° IN	ICREMENTS
		2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN. OPPOS AVAILABLE ONLY BY CONNECTION CHANGE.	ITE ROTATION
		3. KEY DIMENSIONS EQUAL 0.375"x 0.375"x 1.88"	(MOTOR SUPPLIED WITH KEY)
TOSHIBA RESERVES THE RIGHT TO MAKE CHANGES OF TECHN	NICAL IMPROVEMENT AND THE DATA MAY CHANGE V	VITHOUT NOTICE	PRELIMINARY
DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICAT	ION PURPOSES UNLESS THE DRAWING IS MARKED AS	SCERTIFIED	X CERTIFIED
	TOTALLY ENCLOSED FAN COOLED	DRAWING #: MDSLV002-05	
	HORIZONTAL FOOT MOUNTED	REV. DATE: 07/05/18 REV. #: 0	PER.: M. O'DOWD
www.toshiba.com/tic	3 PHASE INDUCTION MOTOR	REV. DESCRIP.:	
TOSHIBA INTERNATIONAL CORPORATION	284TS-286TS F1 ASSEMBLY		



eading	Innovation	>>>
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TYPICAL MOTOR PERFORMANCE DATA

Issued Date

Issued By

6/19/2025

dschoeck

Transmit #

Issued Rev

-	0254SDSR41E							
HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
25	18.5	4	1770	284TS	230/460	60	3	60/30
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	93.6	В		40 C
oad	HP	kW	Ampe		Efficiency	/ (%)	Power Fa	
ull Load	25.00	18.6	30		93.9			2.5
4 Load	18.75	14.0	23		93.1		79	
2 Load	12.50 6.25	9.3 4.7	18 13		91.0		71).9
4 Load	0.25	4.7			84.0			
lo Load .ocked Rotor			12 19				4	
			Torque	e				Rotor wk ²
Full Lo	bad	Locke	d Rotor		III Up	Brea	ak Down	Inertia
(Ib-ft			FLT)		FLT)	(%	% FLT)	(lb-ft²)
74.2			20		155		300	5.70
Cold	Hot	Pressure dB(A) @ 1M	DE		NDE		Approx. Mo	os)
Cold 35	Hot 15	1	DI 6310.	E	-	23	(Ib	-
35 Bearings are the only re Notor Options: Product Family:EQF	15 ecommended spare	dB(A) @ 1M -		E	NDE	23	(Ib	os)
	15 ecommended spare	dB(A) @ 1M -		E	NDE	23	(Ib	os)
35 Bearings are the only re Product Family:EQF Aounting:Footed,Sh Sustomer Sustomer PO ales Order roject # ag:	15 ecommended spare P Global SD haft:TS Shaft	dB(A) @ 1M -	6310.	E ZC3 RPORATION ·	NDE		(Ib	os)
35 Bearings are the only re Notor Options: Product Family:EQF Mounting:Footed,Sh Mounting:Footed,Sh Customer Customer PO Gales Order Project #	15 ecommended spare P Global SD haft:TS Shaft	dB(A) @ 1M -	6310.	E ZC3	NDE 6310ZC	AS U.S.A.	(Ib	os)



TYPICAL MOTOR PERFORMANCE DATA

Issued Date

Issued By

6/19/2025

dschoeck

Transmit #

Issued Rev

25 18.5 4 1465 284TS 190380 50 3 7238 Enclosure IP Ins. Class S.F. Duty NEMA Nom. Eff. NEMA Design kVA Code Ambier (°C) TEFC 55 F 1.0 CONT 91.6 B 40 C cad HP kW Amperes Efficiency (%) Power Factor (%) uil Load 13.75 14.0 27 92.2 82.6 10.2 Load 13.75 14.0 27 92.2 82.6 10.2 Load 0.25 4.7 14.3 84.8 55.2 10.0 Load 12.50 0.0 11.6 5.1 0.0 30.7 coked Rotor 206 10.0 240 5.7 0.0 30.7 full Load Locked Rotor Pull Up Break Down (b.7) (b.7) (b.7) (b.7) Gold Hot Coked Rotor 10 240 5	HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
Enclosure IP Ins. Class S.F. Duty NEMA Non. Eff. NEMA Design N/A Code And (C) TEFC 55 F 1.0 CONT 91.6 B 40.C oad HP KW Amperes Efficiency (%) Power Factor (%) 40.C oad 18.75 14.0 27 92.2 82.6 14.0 Load 12.50 9.3 20 90.7 76.6 14.0 Load 5.25 4.7 14.3 84.8 55.2 0 Load 5.25 4.7 14.3 84.8 55.2 0 Load 5.25 1.16 20.6 30.7 7 6.5 Load 6.25 4.7 14.3 84.8 55.2 1 Load 6.25 1.10 240 8.0 1.5.70 10.5 10 240 5.70 Safe Stall Tim(s) Sound Bearings* Approx. Motor Weight MGA) @ MA OH									
TEPC 55 F 1.0 CONT 91.6 B 40 C bad HP MW Amperes Efficiency (%) Power Factor (%) bit Load 25.0 18.6 35 92.4 64.7 Load 18.75 14.0 27 92.2 62.6 Load 12.50 9.3 20 90.7 76.8 Load 12.50 4.7 11.6 5.1 56.2 o Load 0.25 4.7 11.6 5.1 56.2 o Load 0.25 4.7 11.6 5.1 56.2 o Load 0.25 4.7 15.5 110 240 5.70 Safe Stall Time(s) Sound Pressure Bearings* Approx. Motor Weight (B+M) 0.10 240 5.70 Safe Stall Time(s) Sound Pressure Bearings* Approx. Motor Weight (B+M) 0.10 240 5.70 Safe Stall Time(s) Sound Q(A) @ th DE NDE (Dis) 0.10			Ins. Class			NEMA	NEMA	kVA Code	Ambient
Dad HP KW Ampares Efficiency (%) Power Factor (%) uil Load 25.00 18.6 36 92.4 64.7 Load 12.50 18.6 36 92.2 62.6 Load 6.25 4.7 14.3 94.8 55.2 Load 6.25 4.7 11.6 5.1 Doked Rotor 206 30.7 76.6 Load 6.25 4.7 11.6 5.1 Doked Rotor 206 30.7 84.8 55.2 Ubdy (K-FLT) (K-FLT) (K-FLT) (Bot ovi (Bot ov	TEEC	55	Г	1.0	CONT				
uil Load 25.00 18.8 36 92.4 94.7 Load 18.75 14.0 27 92.2 82.6 Load 12.50 9.3 20 90.7 76.6 Load 6.25 4.7 14.3 84.8 56.2 Joad 206 30.7 7 7 7 Ubod Locked Rotor 206 30.7 7 7 Ubod Locked Rotor Pressure Pressure dig(A) (# 10 DE NDE (Notr Weight (bs) 35 15 - 63102C3 63102C3 435 sering are the only recommended spare part(s). sering are the only recommended spare part(s). sering are the only recommended spare part(s). sering are the only recommended spar	TEFC	55	F	1.0	CONT	91.0	В		40 C
UII Load 22.00 18.6 36 92.4 94.7 Load 18.75 14.0 27 92.2 82.6 Load 12.50 9.3 20 90.7 76.6 Load 6.25 4.7 14.3 84.8 56.2 Load Locked Rotor 206 30.7 10 240 5.70 Safe Stall Time(s) KerLY (% FLY) (% FLY) </td <td>oad</td> <td>HP</td> <td>kW</td> <td>Ampe</td> <td>eres</td> <td>Efficiency</td> <td>/ (%)</td> <td>Power Fa</td> <td>actor (%)</td>	oad	HP	kW	Ampe	eres	Efficiency	/ (%)	Power Fa	actor (%)
Load 12.00 9.3 20 90.7 76.6 Load 6.25 4.7 14.3 84.8 58.2 o Load 6.25 4.7 14.3 84.8 58.2 ocked Rotor 206 30.7 30.7 Full Load Locked Rotor Pull Up Break Down Inertia (b+t) (% FLT) (% FLT) (% FLT) (b+t)	ull Load	25.00	18.6	30	6	92.4		84	.7
Load 6.25 4.7 14.3 84.8 58.2 0 Load 0.18 5.1 5.1 5.1 30.7 coked Rotor 206 30.7 30.7 30.7 Torque Pull Up Break Down Rotor will inertia (b-H) (% FLT)	4 Load		14.0						
0 Load 11.6 6.1 ocked Rotor 206 30.7 Torque Rotor will and the set of the set	₂ Load								
ocked Rotor 206 30.7 Torque Rotor w Full Load Locked Rotor Pull Up Break Down Inertia (ib-ft) (% FLT) (% FLT) (% FLT) (% FLT) (% FLT) 89.6 155 110 240 5.70 Safe Stall Time(s) Sound Pressure dB(A) @ 1M DE NDE (ibs) 35 15 - 63102C3 63102C3 435 Sate Stall Time(s) Sound period Sound Pressure dB(A) @ 1M DE NDE (ibs) 35 15 - 63102C3 63102C3 435 Sate Stall Time(s) Sound period Sound Special SD foound period Shaft:TS Shaft	4 Load	6.25	4.7	14	.3	84.8		58	3.2
Safe Stall Time(s) Sound Bearings* Approx. Motor Weight (tb-ft?) Safe Stall Time(s) Sound DE NDE (tb-ft?) Safe Stall Time(s) Pressure dB(A) @ 1M DE NDE (tbs) 35 15 - 6310ZC3 6310ZC3 435 Bearings are the only recommended spare part(s). Iotor Options: roduct Family-EOP Global SD Acunting Footed, Shaft:TS Shaft Iotor Options: roduct Family-EOP Global SD Acunting Footed, Shaft:TS Shaft Ustomer	lo Load								
Full Load Locked Rotor Pull Up Break Down Inertia (lb-ft) (% FLT) (% FLT) (% FLT) (% FLT) (lb-ft)	ocked Rotor			20)6			30).7
Cold Hot Pressure dB(A) @ 1M DE NDE (lbs) 35 15 - 6310ZC3 6310ZC3 435 learings are the only recommended spare part(s). Iotor Options: Troduct Family: CaPC Global SD Aounting: Fooled, Shaft: TS Shaft Iotor Options:		-			(%	FLT)	(%		(lb-ft²) 5.70
Cold Hot dB(A) @ 1M DE NDE (tbs) 35 15 - 6310ZC3 6310ZC3 435 Bearings are the only recommended spare part(s). Interview of t	Safe Stall 1	Гime(s)			Bearing	JS*		Approx. Mo	otor Weight
Asearings are the only recommended spare part(s).	Cold	Hot		DI	E	NDE		(Ib	os)
Ioro Options: roduct Family:EQP Global SD //ounting:Footed,Shaft:TS Shaft Bustomer	35	15	-	6310	ZC3	6310ZC	23	43	35
Lustomer PO ales Order ales Order ales Order ag: Il characteristics are average expected values. TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.	Bearings are the only re	commended spare	e part(s).						
roject # ag: Il characteristics are average expected values. TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.	Motor Options: Product Family:EQF	P Global SD	e part(s).						
ag: Il characteristics are average expected values. TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.	Notor Options: Product Family:EQF	P Global SD	e part(s).						
ag: Il characteristics are average expected values. TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.	Notor Options: Product Family:EQF Mounting:Footed,Sh	P Global SD	e part(s).						
TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.	Notor Options: Product Family:EQF Mounting:Footed,Sh	P Global SD	e part(s).						
	Iotor Options: Product Family:EQF Mounting:Footed,Sh Mounting:Footed,Sh Mounting:Tooted,S	P Global SD	e part(s).						
Engineering Jrodrigu Doc. Written By D. Suarez Doc.# / Rev MPCF-1119.	Iotor Options: Product Family:EQF Mounting:Footed,Sh Sustomer Sustomer PO ales Order roject # ag:	P Global SD haft:TS Shaft	lues.						
Engr. Date 8/1/2024 Doc. Approved By M. Campbell Doc. Issued 6/8/2011	Actor Options: Product Family:EQF Mounting:Footed,Sh Sustomer Sustomer PO Sales Order Project # ag:	P Global SD haft:TS Shaft	ilues. TOSHIBA INTER	NATIONAL CO					



ΗP

25

Enclosure

TEFC

Locked Rotor

Amps

Tag:

				-		
		Issued Date	6/19/202		Transmit #	
		Issued By	dschoed	ck	Issued Rev	
		UE/CURREN				
Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
4	1770	284TS	230/460	60	3	60/30
Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
F	1.15	CONT	93.6	В		40 C
		•	Torque			
Full Load	Locked		Pull U	0	Break	
(lb-ft) 74.2	(% 22		(%) 155		(% 30	
-						00
						50
	• •					⁵⁰ Current (%)

6/8/2011

Model: 0254SDSR41B-P

kW

18.5

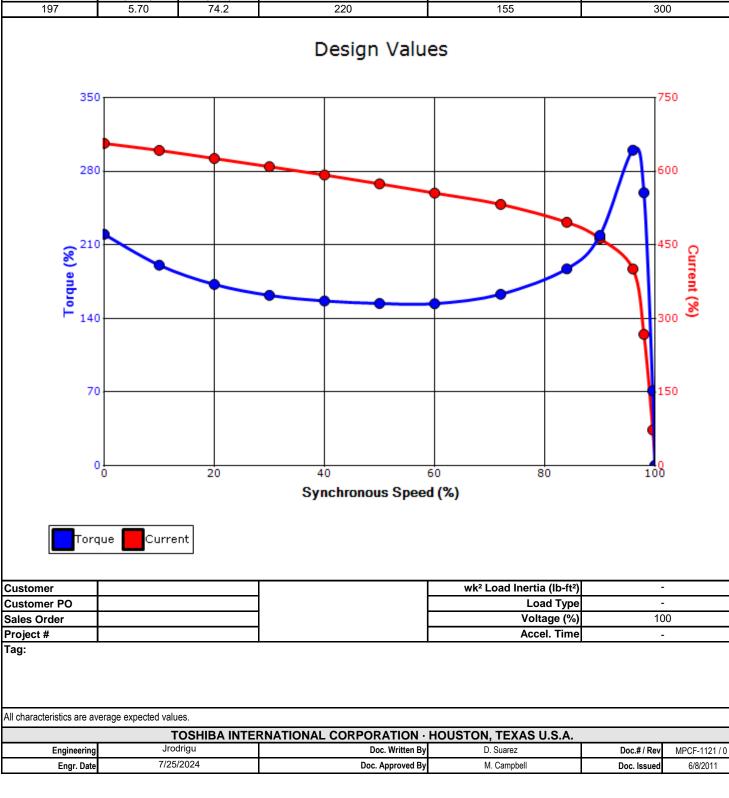
IP

55

Rotor wk²

Inertia

(lb-ft²)





HP

25

Enclosure

TEFC

Locked Rotor

Amps

206

300

240

(%) anbio 120

60

ᅆ

Model: 0254SDSR41B-P

kW

18.5

IP

55

Rotor wk²

Inertia

(lb-ft²)

5.70

Pole 4 4 Ins. Class F Full Load (lb-ft) 89.6	FL RPM 1465 S.F. 1.0	Issued Date Issued By UE/CURREN Frame 284TS Duty CONT	Voltage 190/380 NEMA		Transmit # Issued Rev Phase 3	FL Amps
Pole 4 Ins. Class F Full Load (lb-ft)	FL RPM 1465 S.F. 1.0	UE/CURREN Frame 284TS Duty	T CURVE Voltage 190/380 NEMA	Hz	Phase	
Pole 4 Ins. Class F Full Load (lb-ft)	FL RPM 1465 S.F. 1.0	Frame 284TS Duty	Voltage 190/380 NEMA			
4 Ins. Class F Full Load (lb-ft)	1465 S.F. 1.0	284TS Duty	190/380 NEMA			
Ins. Class F Full Load (lb-ft)	S.F. 1.0	Duty	NEMA	50	3	
F Full Load (lb-ft)	1.0				~	72/36
Full Load (lb-ft)		CONT	Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
(lb-ft)	Lookod	CONT	91.6	В		40 C
(lb-ft)			Torque			
		Rotor	Pull Up)	Break	
89.6	(%		(%)		(%	
	15	5	110		24	0
						20
	• •					90 Current (%)

100

80

Toro	que C urrent
tomer	

20

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

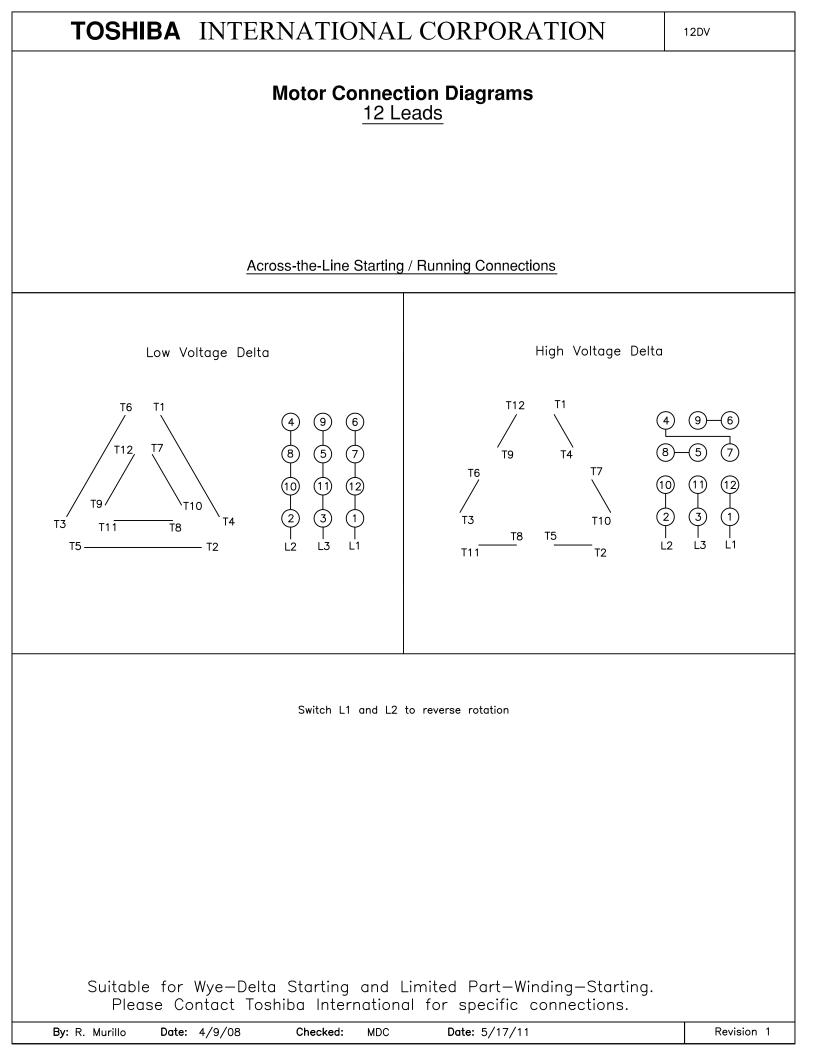
Synchronous Speed (%)

60

40

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	8/1/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			





	Transmit #:	25	6/19/202	Issued Date:		
	Issued Rev:	:k	dschoed	Issued By:		
			T*	E PARTS LIS	SPARE	
FL Amps	Phase	Hz	Voltage	Frame	FL RPM	Pole
FL Amps 60/30	Phase 3	Hz 60	Voltage 230/460	Frame 284TS	FL RPM 1770	Pole 4

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

Model: 0254SDSR41B-P

kW

18.5

IP

55

6310ZC3 / 50BC03JP3OX 6310ZC3 / 50BC03JP3OX

HP

25

Enclosure

TEFC

Bearings DE

Bearings NDE

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	verage expected values.				
		RNATIONAL 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