	188 <sup>1</sup> /20         10         10         10         10         10         10         10         10         10         10         10         10         12         0.75" NPT CONDUIT         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         13         14         15         16         17         18         18         19         10         10         11         12         13         14         15         16         17         18         18         18         18         18 <tr< th=""><th>07.9 7.7 06.50 04.500 05.975 05.975 05.975 0.575 0.575 0.575 0.575 0.77</th></tr<>	07.9 7.7 06.50 04.500 05.975 05.975 05.975 0.575 0.575 0.575 0.575 0.77
UNITS: INCHES ROTATION FROM NDE		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 0.188°x 1.38" (MOTOR SUPPLIED WITH KEY)
I	INICAL IMPROVEMENT AND THE DATA MAY CHANGE W	
DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICA	TION PURPOSES UNLESS THE DRAWING IS MARKED AS	CERTIFIED X CERTIFIED
	TOTALLY ENCLOSED FAN COOLED	DRAWING #: MDSLV005-01
	FOOTED C-FACED (NEMA BA)	REV. DATE: 06/20/18 REV. #: 4 PER.: M. O'DOWD
www.toshiba.com/tic	<b>3 PHASE INDUCTION MOTOR</b>	REV. DESCRIP.:
TOSHIBA INTERNATIONAL CORPORATION	143TC-145TC F1 ASSEMBLY	



ead	ing	Innovat	ion	>>>
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## **TYPICAL MOTOR PERFORMANCE DATA**

Issued Date

Issued By

6/19/2025

dschoeck

Transmit #

**Issued Rev** 

2         1.5         2         3500         145TC         200460         60         3         5.42.7           Enclosure         IP         Ins. Class         S.F.         Duty         NEMA Nom. Eff.         Design         KVA Code         Ambient (C)           TEPC         55         F         1.15         CONT         85.5         B         40 C           add         HP         KW         Amperes         Efficiency (%)         Power Factor (%)         Fourier factor (%)         Fourier factor (%)           Load         1.00         0.7         1.7         86.6         65.5         10.6           Load         0.50         0.4         1.3         0.2         60.6         60.5           Load         0.50         0.4         1.3         0.2         60.6         60.6           Load         0.50         0.4         1.5         0.2         7.6 <th></th> <th>0022SDSR47/</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>		0022SDSR47/							
Enclosure         IP         Ins. Class         S.F.         Duty         NEMA Non. Eff.         NEMA Design         KVA Code         Amburn (CO)           TEPC         55         F         1.15         CONIT         85.5         B         40.C           aad         HP         KW         Ampares         Efficiency (%)         Power Factor (%)         40.C           Load         1.00         1.5         2.7         86.8         66.5         52.1           Load         1.00         0.7         1.7         80.8         66.5         53.9         9.2           Load         0.50         0.4         1.3         76.6         90.6         54.9         54.9           Load         0.50         0.4         1.3         76.6         90.6         54.9           Violad         0.50         0.4         1.3         76.8         97.5         0.06           Solo         3.00         3.25         2.65         3.75         0.06         10.64           Cold         Hot         Coked Rotor         (% FLT)         (% FLT)         (% FLT)         (% Peru)         (br.9)         3.06         24         15         .         630522C3         630									FL Amps
Enclosure         IP         Ins. Likes         S.r.         Uuty         Non. Eff.         Design         KA Code         (C)           TEPC         55         F         1.15         CONT         85.5         B         40 C           and         HP         KW         Amperes         Efficiency (%)         Power Factor (%)           Load         1.00         1.5         2.7         86.6         78.21           Load         1.00         0.7         1.7         80.8         66.5           Load         0.20         0.4         1.0         76.8         60.6           load         0.20         0.4         1.0         92         60.6           load         1.0         K.FLT)         (% FLT)         (% FLT)         (% FLT)           getaring         Bearings*         Approx. Motor Weight	2	1.5	2	3500	145TC			3	
Safe Stall Time(s)         Sound (b-ft)         Sound (ft)         Sound (ft)         Bearings*         Approx. Motor Weight (ft)           Safe Stall Time(s)         Sound (ft)         Poster For (ft)         Sound (ft)         Descript         Approx. Motor Weight (ft)           Safe Stall Time(s)         Sound (ft)         Poster For (ft)         Poster For (ft)         Approx. Motor Weight (ft)           Safe Stall Time(s)         Sound (ft)         Poster For (ft)         Poster For (ft)         Poster For (ft)           24         15         -         6305ZZC3         66           earings*         NDE         (ftb)         (ftb)           24         15         -         6305ZZC3         66           earings are the only recommended spare part(s).         Sound (ft)         DE         NDE         (ft)           10 Options: ropict #         To SHIBA INTERNATIONAL CORPORATION - HOUSTON, TEXAS U.S.A.         TO SHIBA INTERNATIONAL CORPORATION - HOUSTON, TEXAS U.S.A.           Engineering         apprentize         0e. Witte fby         0. Same         Dec./fby         Motor Miternity					-	Nom. Eff.	Design	kVA Code	(°C)
UIL Load         2.00         1.5         2.7         85.6         92.1           Load         1.50         1.1         2.2         84.3         74.9           Load         1.00         0.7         1.7         80.8         66.5           Load         0.50         0.4         1.0         75.8         60.6           ol Codd         0.50         0.4         1.0         75.8         60.6           ocked Rotor         25         54.3         32.2         54.3           Col dd         Locked Rotor         Pull Up         Break Down         Inertia         (b-ft)           (bft)         (KFLT)         (KFLT)         (KFLT)         (b-ft)         (b-ft)           3.00         325         265         375         0.06           Safe Stall Time(s)         Sound         Pressure         Bearings*         Approx. Motor Weight           Cold         Hot         df(A) @ 1M         DE         NDE         (lb-s)           24         15         -         6305ZC3         6305ZZ3         66           Value family EOP Global SD CFace Fooled         Shaft T Shaft         Shaft T Shaft         Shaft T Shaft	TEFC	55	F	1.15	CONT	85.5	В		40 C
UIL Load         2.00         1.5         2.7         85.6         92.1           Load         1.50         1.1         2.2         84.3         74.9           Load         1.00         0.7         1.7         80.8         66.5           Load         0.50         0.4         1.0         75.8         60.6           Load         0.50         0.4         1.0         75.8         60.6           Load         0.50         0.4         1.3         3.2         3.2           acked Rotor         25         54.3         54.3         1.6         1.6           Vistore         (b-ft)         (% FLT)         (% FLT)         (% FLT)         (b-ft)         (b-ft) <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
Load         150         1.1         2.2         84.3         74.9           Load         1.00         0.7         1.7         80.8         96.5           Load         0.50         0.4         1.0         75.8         60.6           Load         0.50         0.4         1.0         75.8         60.6           Load         0.50         0.4         1.3         9.2         54.9           cocked Rotor         25         375         0.06         10.4         10.4         10.4         10.4         10.4         10.4         10.4         10.4         10.4         10.4         10.4         10.4         10.4         10.4         10.4         10.4         10.4         10.4         11.1         10.4 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>/ (%)</td><td></td><td></td></td<>							/ (%)		
Load         1.00         0.7         1.7         80.8         06.5           Load         0.50         0.4         1.0         75.6         60.6           Ocked Rotor         25         64.9         9.2         64.9           Torque         Rotor wk           Full Load         Locked Rotor         9.2         64.9           (b+f)         (% FLT)         (% FLT)         (% FLT)         (% FLT)           (B-ff)         (% FLT)									
Load         0.50         0.4         1.0         75.6         60.6           lo Load         0.2         0.4         1.3         0.2         0.4         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.2         0.6         0.6         0.2         0.6         0.2         0.6         0.6         0.2         0.6         0.6         0.6         0.2         0.6         0									
to Load     13     9.2       ocked Rotor     25     54.9       Torque     Rotor with Inertia       (Ib-ft)     Locked Rotor     Pull Up     Break Down     Inertia       (Ib-ft)     (% FLT)     (% FLT)     (% FLT)     (b-ft)       3.00     325     265     375     0.06       Safe Stall Time(s)     Pressure dB(A) & M     Bearings*     Approx. Motor Weight (bs)       24     15     -     6306ZZC3     6306ZZC3     66       Sate stall Time(s)       24     15     -     6306ZZC3     6306ZZC3     66       Sate only recommended spare part(s).       NDE     (bs)       Approx. Motor Weight (bs)       Octor Options: "Order Family EOP Global SD CFace Fooled Mounting C-Face Fooled, Shaft: T Shaft       Note Fooled Shaft: T Shaft       Satemer PO Listomer PO Listomer PO Listomer PO Listomer PO Listomer PO Listomer Model and Shaft (Corporation - HOUSTON, TEXAS U.S.A.       TOSHIBA INTERNATIONAL CORPORATION - HOUSTON, TEXAS U.S.A.       TOSHIBA INTERNATIONAL CORPORATION - HOUSTON, TEXAS U.S.A.       Discurre Do Listom       Discurre Do Listom									
Safe Stall Time(s)         Sound (% FLT)         Torque         Rotor wk Inertia           Safe Stall Time(s)         Sound (% FLT)         Paral Up (% FLT)         Break Down (b-ft)         Inertia           Safe Stall Time(s)         Sound Pressure difference         Bearings*         Approx. Motor Weight (bs)           Cold         Hot         dB(A) @ 1M         DE         NDE         (bs)           24         15         -         6305ZC3         6305ZC3         66           Bearings are the only recommended spare part(s).         Motor Options: "Point Family:EOP Global SD CFace Footed Wounting C-Face Footed.Shaft: T Shaft         Motor Options: "States Order International componential spare part(s).           Sustemer PO Isates or PO Isates or dor         International componential compo		0.50	0.4			/5.6			
Safe Stall Time(s)         Sound (% FLT)         Pull Up (% FLT)         Break Down (% FLT)         Rotor wk (hertin (b-ft))           3.00         325         265         375         0.06           Safe Stall Time(s)         Sound Pressure dB(A) @ 1M         Bearings*         Approx. Motor Weight (lbs)           24         15         -         6305ZZC3         6305ZZC3         66           Bearings are the only recommended spare part(s).         -         6305ZZC3         6305ZZC3         66           Approx. Motor Weight (ubs)         -         6305ZZC3         6305ZZC3         66           Bearings are the only recommended spare part(s).         -         -         6305ZZC3         6305ZZC3           24         15         -         6305ZZC3         6305ZZC3         66           Bearings are the only recommended spare part(s).         -         -         -         -           Zustomer PO iales Order iales Order iogic t #         -         -         -         -         -           I dharaderistics are average expected values.         -         -         -         -         -           I dharaderistics are average expected values.         -         -         -         -         -         -         -         -			-						
Full Load         Locked Rotor         Pull Up         Break Down         Inertia           (lb-ft)         (% FLT)         (% FLT)         (% FLT)         (% FLT)         (b-ft)           3.00         325         265         375         0.06           Safe Stall Time(s)         Sound Pressure dB(A) @ 1M         Bearings*         Approx. Motor Weight (bs)           24         15         -         6305ZZC3         63           3earings are the only recommended spare part(s).         1000 Family EQP Global SD CFace Footed founting:C-Face Footed.Shaft.T Shaft         5000 Family EQP Global SD CFace Footed founting:C-Face Footed.Shaft.T Shaft           ustomer	OCKED ROTOR			2	5				1.9
Full Load         Locked Rotor         Pull Up         Break Down         Inertia           (lb-ft)         (% FLT)         (% FLT)         (% FLT)         (% FLT)         (b+ft)           3.00         325         265         375         0.06           Safe Stall Time(s)         Sound Pressure dB(A) @ 1M         Bearings*         Approx. Motor Weight (bs)           24         15         -         6305ZZC3         6305ZZC3         66           Bearings are the only recommended spare part(s).         Actor Options: roduct Family EQP Global SD CFace Fooled Wounting.C-Face Fooled,Shaft.T Shaft         6           Sustomer									
(Ib-ft)         (% FLT)         (% FLT) <t< td=""><td></td><td></td><td><b>.</b></td><td></td><td></td><td></td><td>-</td><td>als Daving</td><td></td></t<>			<b>.</b>				-	als Daving	
3.00     325     265     375     0.06       Safe Stall Time(s)     Sound Pressure dB(A) @ 1M     DE     NDE     Approx. Motor Weight (bs)       24     15     -     6305ZC3     6305ZC3     66       Bearings are the only recommended spare part(s).     6305ZC3     6305ZC3     66       Aotor Options: Product Family:EOP Global SD CFace Footed Wounting:C-Face Footed, Shaft:T Shaft     -     -       Zustomer						•			
Safe Stall Time(s)         Sound Pressure dB(A) @ 1M         Bearings*         Approx. Motor Weight (bs)           24         15         -         6305ZZC3         6305ZZC3         66           Bearings are the only recommended spare part(s).         . <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>(%</td> <td></td> <td></td>					-	-	(%		
Bearings are the only recommended spare part(s).  Actor Options: Product Family:EOP Global SD CFace Footed Wounting:C-Face Footed,Shaft:T Shaft  Customer Customer Customer PO Sustomer PO Sales Order PO									-
Actor Options: Product Family:EQP Global SD CFace Footed Wounting:C-Face Footed,Shaft:T Shaft         Sustomer         Sustomer PO         Sustomer PO         Sales Order         Project #         ag:         International Corporation - HOUSTON, TEXAS U.S.A.         TOSHIBA INTERNATIONAL CORPORATION - HOUSTON, TEXAS U.S.A.         Engineering       aguerrettaz       Doc. Written By       D. Suarez       Doc.# / Rev       MPCF-1119 / J	24	15	-	63052	ZZC3	6305ZZ	C3	6	6
Customer PO       Sales Order         Sales Order       Project #         Fag:       Image: Comparison of the second	Motor Options: Product Family:EQ	P Global SD CF	ace Footed						
Tag:									
Ill characteristics are average expected values.           TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.           Engineering         aguerrettaz         Doc. Written By         D. Suarez         Doc.# / Rev         MPCF-1119 / I	Customer PO								
TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.           Engineering         aguerrettaz         Doc. Written By         D. Suarez         Doc.# / Rev         MPCF-1119 / I	Customer PO Sales Order								
Engineering         aguerrettaz         Doc. Written By         D. Suarez         Doc.# / Rev         MPCF-1119 / III	Customer PO Sales Order Project #								
	ustomer PO ales Order roject # ag:								
	Customer PO Gales Order Project # Tag:		TOSHIBA INTER	NATIONAL CC					
		agu	TOSHIBA INTER	NATIONAL CC		D. Suarez		Doc.# / Rev Doc. Issued	MPCF-1119 / 0 6/8/2011



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## **TYPICAL MOTOR PERFORMANCE DATA**

Issued Date

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6/19/2025

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Issued Rev

Model:								
HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	2	2825	145TC	190/380	50	3	6.6/3.3
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	77.2	-		40 C
oad	HP	kW	Amp		Efficiency	/ (%)		actor (%)
ull Load	2.00	1.5	3.		80.3			5.5
4 Load	1.50	1.1	2.		80.3			).0
2 Load	1.00 0.50	0.7 0.4	2.		77.8 67.9		69	7.3
4 Load	0.50	0.4			67.9			
lo Load .ocked Rotor			1. 2				8 53	
			Torqu					Rotor wk <sup>2</sup>
Full Lo			d Rotor		ull Up		ak Down	Inertia
(lb-ft			FLT)		FLT)	(%	% FLT)	(lb-ft²)
3.72	2	2	05		180		245	0.06
Cold	Hot	Pressure dB(A) @ 1M	D	Bearin E	NDE		(Ib	otor Weight os)
34	15	dB(A) @ 1M -	D 63052	E	-		(Ib	_
	15 commended spare P Global SD CF	dB(A) @ 1M -		E	NDE		(Ib	os)
34 Bearings are the only re <b>Motor Options:</b> Product Family:EQF Mounting:C-Face Fo Mounting:C-Face Fo Sales Order	15 commended spare P Global SD CF	dB(A) @ 1M -		E	NDE		(Ib	os)
34 Bearings are the only re Notor Options: Product Family:EQF Mounting:C-Face Fo Mounting:C-Face Fo Sustomer PO Gales Order Project #	15 commended spare P Global SD CF	dB(A) @ 1M -		E	NDE		(Ib	os)
34 Bearings are the only re Totor Options: Product Family:EQF Aounting:C-Face Fo Aounting:C-Face Fo Sustomer Sustomer PO ales Order Troject #	15 commended spare P Global SD CF	dB(A) @ 1M -		E	NDE		(Ib	os)
34 Bearings are the only re lotor Options: roduct Family:EQF Aounting:C-Face Fo dounting:C-Face Fo austomer ustomer PO ales Order roject # ag:	15 ecommended spare P Global SD CF poted,Shaft:T S	dB(A) @ 1M -	63052	E	NDE 6305ZZ	C3	(Ib	os)
34 Bearings are the only re Product Family:EQF Aounting:C-Face For Aounting:C-Face For Sustomer PO Bales Order Project # ag:	15 ecommended spare P Global SD CF poted,Shaft:T S	dB(A) @ 1M - e part(s). ace Footed haft	63052	E ZZC3	NDE 6305ZZ	C3	(Ib	os)
34 Bearings are the only re <b>Motor Options:</b> Product Family:EQF Mounting:C-Face Fo Mounting:C-Face Fo Customer PO	15 ecommended spare P Global SD CF poted,Shaft:T S	dB(A) @ 1M -	63052	E	NDE 6305ZZ	C3	(Ib	os)



2

Enclosure

TEFC

Locked Rotor

Amps

25

		Issued Date	6/19/20	25	Transmit #	
		Issued By	dschoe	ck	Issued Rev	
SI	PEED TORQ	UE/CURREN	IT CURVE			
Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	3500	145TC	230/460	60	3	5.4/2.7
. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
F	1.15	CONT	85.5	В		40 C
			Torque			
II Load		d Rotor	Pull U	o	Break	
(lb-ft)		%)	(%)		(%	
3.00	32	25	265		37	<u> </u>
		sign Value	es		10	50
	De	sign Value	es		10	
	De	sign Value	es		84	0
			es			o Current (%
		sign Value	es		63	0 Current (%)

Model: 0022SDSR47A-P

HP kW

1.5

IP

55

Rotor wk<sup>2</sup>

Inertia

(lb-ft<sup>2</sup>)

0.06

450		Design			
360	•				840
360					
\$ <sup>270</sup>					630 <b>ខ្</b>
270 <b>%)</b> 180					Current (%)
lord					t (%
⊢ 180				-	420 2
				_   <b>` \</b>	<b>T</b>
					210
90					210
					N N
0 <mark> </mark>	20	40	60	80	100
		Synchronous	Speed (%)		
	Current				
Torque	Current				
tomer			wk² Load	Inertia (Ib-ft <sup>2</sup> )	-
tomer PO			WK LOdu	Load Type	-
es Order				Voltage (%)	100
ject #				Accel. Time	-

All 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	8/2/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



HP

2

Enclosure

Tag:

		Issued Date	6/19/20	25	Transmit #	
		Issued By	dschoe	ck	Issued Rev	
S	PEED TORQ	UE/CURREN	T CURVE			
	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
	2825	145TC	190/380	50	3	6.6/3.3
	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
	1.0	CONT	77.2	-		40 C
			Torque			
	Locked (%		Pull U (%)	р	Break (%	
	20	5	180		24	5
	Des	ign Value	es			50
					6	00

450

300

150

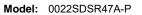
-

-

100

-

Current (%)



kW

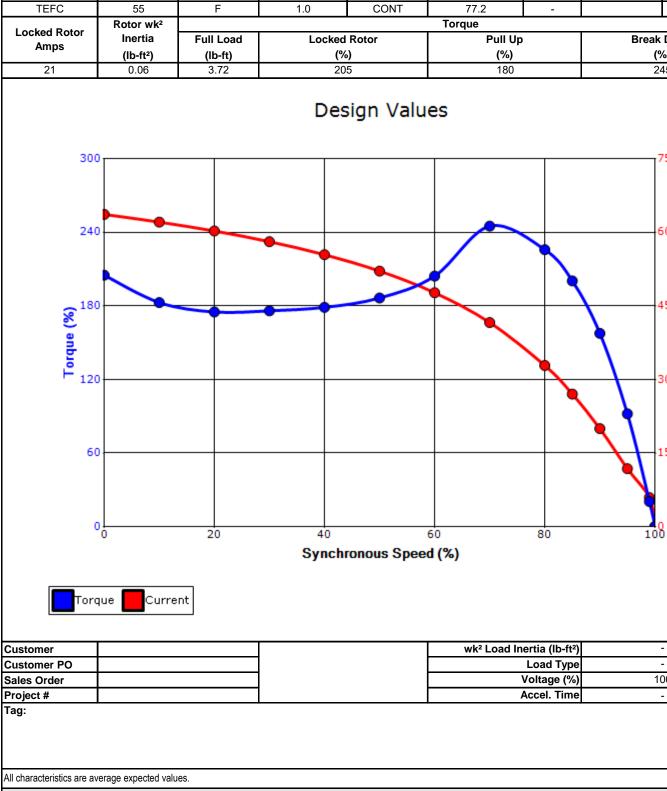
1.5

IP

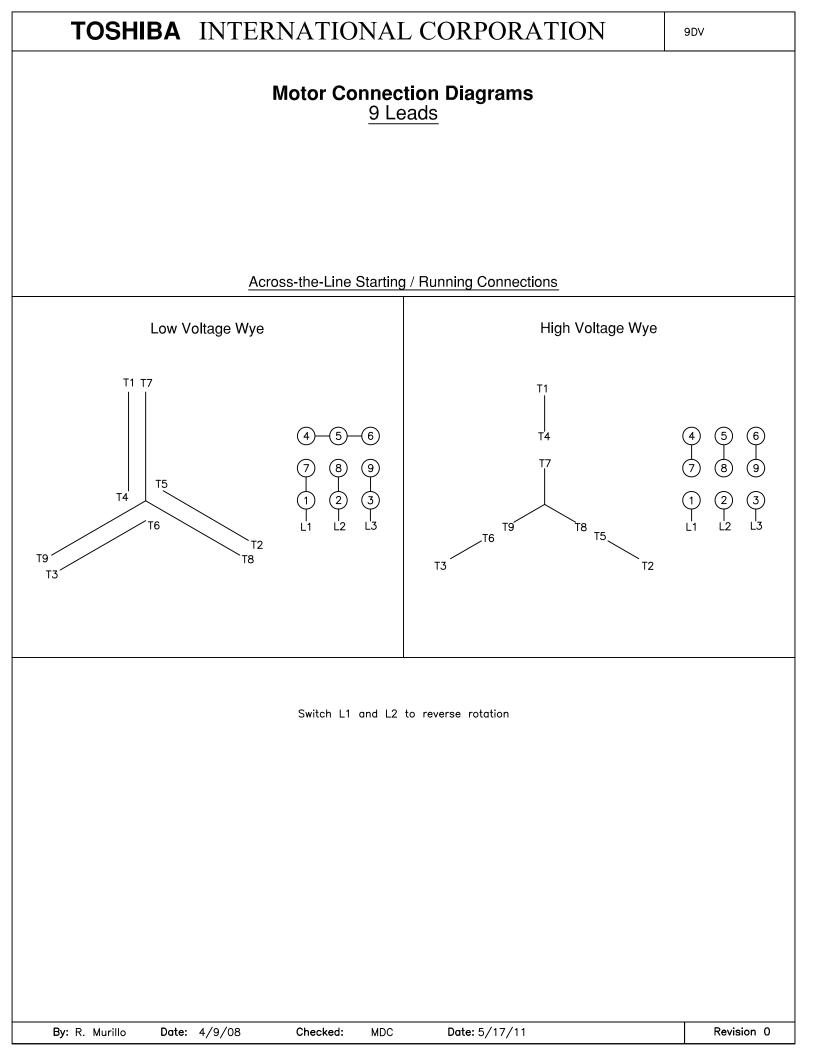
Pole

2

Ins. Class



	TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	aguerrettaz	Doc. Written By	D. Suarez	Doc.#/Rev	MPCF-1121 / 0				
Engr. Date	8/2/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011				



				Issued Date:	6/19/20	)25	Transmit #:	
TOSH	IIBA			Issued By:	dschoe	eck	Issued Rev:	
	novation >>>	,	SPAR	E PARTS LIST	<b>Г</b> *			
Model	: 0022SDSR47/	λ-P						
HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	2	3500	145TC	230/460	60	3	5.4/2.7
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	85.5	В		40 C
Bearings DE	6305ZZC3 / 2	5BC03JPP3OA						
Bearings NDE	6305ZZC3 / 2	5BC03JPP3OA						

\*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	verage expected values.							
	TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.							
Engineering	aguerrettaz	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1125 / 0			
Engr. Date	8/2/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			