

#### 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

0.250"x 0.250"x 1.75"

(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
FOOTED C-FACED
3 PHASE INDUCTION MOTOR
182TC-184TC F1 ASSEMBLY

DRAWING #:	MDSLV003-0	02			
REV. DATE:	06/21/18	REV. #:	4	PER.:	M. O'DOWD
REV. DESCRIP.:					



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

#### **TYPICAL MOTOR PERFORMANCE DATA**

Model: 0032SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
3	2.2	2	3500	182TC	230/460	60	3	7.4/3.7
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	86.5	В		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	3.00	2.2	3.7	86.7	88.8
¾ Load	2.25	1.7	2.8	86.5	85.5
½ Load	1.50	1.1	2.0	84.5	78.0
¼ Load	0.75	0.6	1.5	77.0	59.1
No Load			1.2		12.7
Locked Rotor			29		50.9

Torque								
Full Load	Locked Rotor	Pull Up	Break Down	Inertia				
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)				
4.50	195	175	335	0.13				

Safe Stall Time(s) Sou		Sound	Bearin	Approx. Motor Weight	
Cold	Hot Pressure		Bearin		
Cold Hot		dB(A) @ 1M	DE	NDE	(lbs)
35	15	-	6306ZZC3	6306ZZC3	86

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

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

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	mcampbell	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0			
Engr. Date	2/27/2012	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



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Issued By	dschoeck	Issued Rev	

#### **TYPICAL MOTOR PERFORMANCE DATA**

Model: 0032SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
3	2.2	2	2870	182TC	190/380	50	3	9.0/4.5
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	84.0	В		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	3.00	2.2	4.5	88.8	86.5
¼ Load	2.25	1.7	3.3	89.7	83.5
∕₂ Load	1.50	1.1	2.4	89.3	76.2
4 Load	0.75	0.6	1.7	77.7	64.3
No Load			1.1		10.3
Locked Rotor			35		62.2

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
5.49	160	140	230	0.13			

Safe Stall Time(s)		Sound	Bearin	Approx. Motor Weight	
Cold	Hot	Pressure	Bearing	Approx. Motor Weight	
Cold Hot		dB(A) @ 1M	DE	NDE	(lbs)
20	9	-	6306ZZC3	6306ZZC3 6306ZZC3	

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

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

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All characteristics are av	All characteristics are average expected values.						
	TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.						
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0		
Engr. Date	4/7/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011		



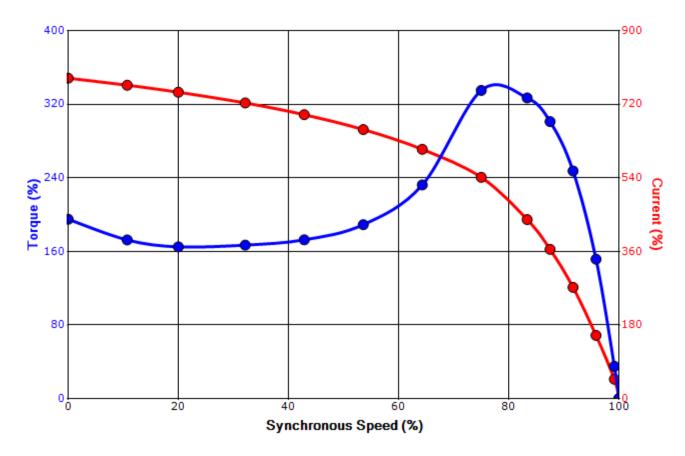
Issued Date	6/19/2025	Transmit #	
Issued By	dschoeck	Issued Rev	

### SPEED TORQUE/CURRENT CURVE

Model: 0032SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
3	2.2	2	3500	182TC	230/460	60	3	7.4/3.7
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	86.5	В		40 C
Laskad Datas	Rotor wk <sup>2</sup>	Torque						
Locked Rotor Amps	Inertia	Full Load	Locked	Rotor	Pull Up	)	Break	Down
Amps	(lb-ft²)	(lb-ft)	(%)		(%)		(%	<b>%)</b>
29	0.13	4.50	19	5	175		33	35

# 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	mcampbell	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0	
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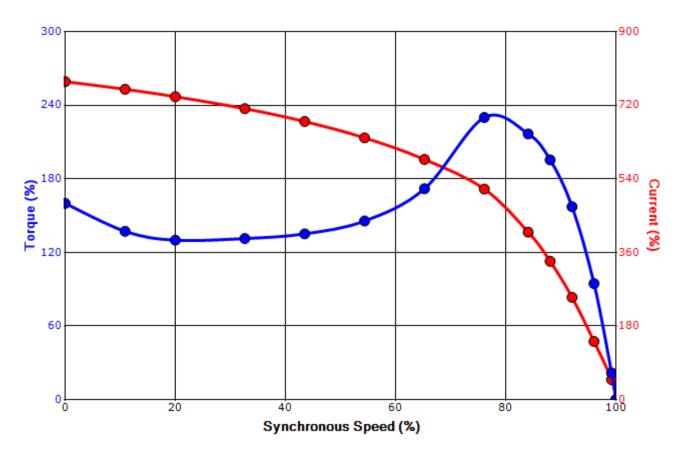
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### SPEED TORQUE/CURRENT CURVE

Model: 0032SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
3	2.2	2	2870	182TC	190/380	50	3	9.0/4.5
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	84.0	В		40 C
Looked Deter	Rotor wk <sup>2</sup>	Torque						
Locked Rotor	Inertia	Full Load	Locked	Rotor	Pull Up		Break	Down
Amps	(lb-ft²)	(lb-ft)	(%	5)	(%)		(%	<b>6</b> )
35	0.13	5.49	16	0	140		23	30

# Design Values





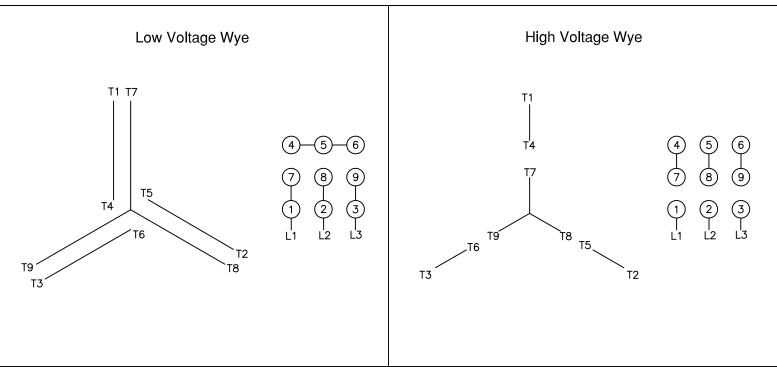
Customer	wk² Load Inertia (Ib-f	2) -		
Customer PO	Load Typ	е -		
Sales Order	Voltage (%	6) 100		
Project #	Accel. Tim	е -		

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.							
Engineering	jhock	Doc. Written By	D. Suarez	Doc.#/Rev	MPCF-1121 / 0		
Engr. Date	4/7/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011		

# Motor Connection Diagrams 9 Leads

## Across-the-Line Starting / Running Connections



Switch L1 and L2 to reverse rotation

By: R. Murillo Date: 4/9/08 Checked: MDC Date: 5/17/11 Revision 0



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#### **SPARE PARTS LIST\***

Model: 0032SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
3	2.2	2	3500	182TC	230/460	60	3	7.4/3.7
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	86.5	В		40 C

 Bearings DE
 6306ZZC3 / 30BC03JPP3OA

 Bearings NDE
 6306ZZC3 / 30BC03JPP3OA

\*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:

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Engineering	mcampbell	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1125 / 0					
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