

UNITS: INCHES ROTATION FROM NDE CW X CCW

- AVAILABLE ONLY BY CONNECTION CHANGE.
- 3. KEY DIMENSIONS EQUAL

0.188"x 0.188"x 1.38"

(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 HORIZONTAL FOOT MOUNTED 3 PHASE INDUCTION MOTOR F1 ASSEMBLY 143T-145T

DRAWING #: MDSLV001-01 REV. DATE: 06/19/18 REV. #: 4 PER.: M. O'DOWD REV. DESCRIP.:



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

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

Model: 3/46SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.75	0.55	6	1170	143TC	230/460	60	3	2.6/1.3
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	80.0	В		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
ull Load	0.75	0.6	1.3	79.3	69.7
¼ Load	0.56	0.4	1.1	77.7	60.8
∕₂ Load	0.38	0.3	1.0	72.9	48.2
∕₄ Load	0.19	0.1	0.9	59.7	32.0
lo Load			0.8		10.3
Locked Rotor			7.9		55.5

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
3.37	220	175	275	0.15			

Safe Stall	Time(s)	Sound	Bearin	ine*	Approx. Motor Weight	
Cold	Hot	Pressure	Bearin	95		
Colu	Cold Hot		DE	NDE	(lbs)	
35	15	-	6305C3	6305C3	56	

\*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	BMammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0			
Engr. Date	11/20/2019	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



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Issued By	dschoeck	Issued Rev	

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

Model: 3/46SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.75	0.55	6	950	143TC	190/380	50	3	3.0/1.5
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	78.5	-		40 C

					D F(0/)
Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	0.75	0.6	1.5	80.5	63.5
¾ Load	0.56	0.4	1.2	79.7	55.9
½ Load	0.38	0.3	1.0	76.2	44.5
¼ Load	0.19	0.1	0.9	60.9	37.5
No Load			0.8		10.8
Locked Rotor			9.2		65.5

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
4.15	175	145	225	0.15			

Safe Stall	Time(s)	Sound	Bearin	une*	Approx. Motor Weight	
Cold	Hot	Pressure	Pressure Bearings*		Approx. Motor Weight	
Colu	1100	dB(A) @ 1M	DE	NDE	(lbs)	
60	47	-	6305C3	6305C3	56	

\*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	
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Sales Order	
Project #	

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TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	jhock	D. Suarez	Doc.# / Rev	MPCF-1119 / 0				
Engr. Date	4/1/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



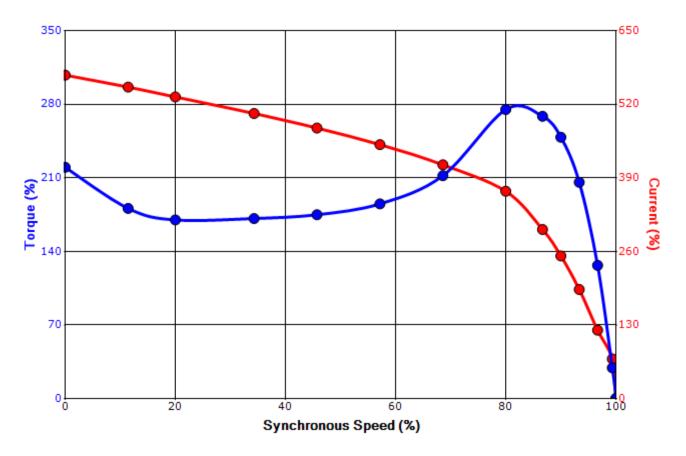
Issued Date	sued Date 6/19/2025		
Issued By	dschoeck	Issued Rev	

## SPEED TORQUE/CURRENT CURVE

Model: 3/46SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.75	0.55	6	1170	143TC	230/460	60	3	2.6/1.3
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	80.0	В		40 C
Looked Deter	Rotor wk <sup>2</sup>		Torque					
Locked Rotor	Inertia	Full Load	Locked	Locked Rotor			Break Down	
Amps	(lb-ft²)	(lb-ft)	(%	(%)			(%)	
7.9	0.15	3.37	220		175		27	75

# 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 BMammen Doc. Written By D. Suarez Doc.# / Rev MPCF-11:								
Engr. Date	11/20/2019	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



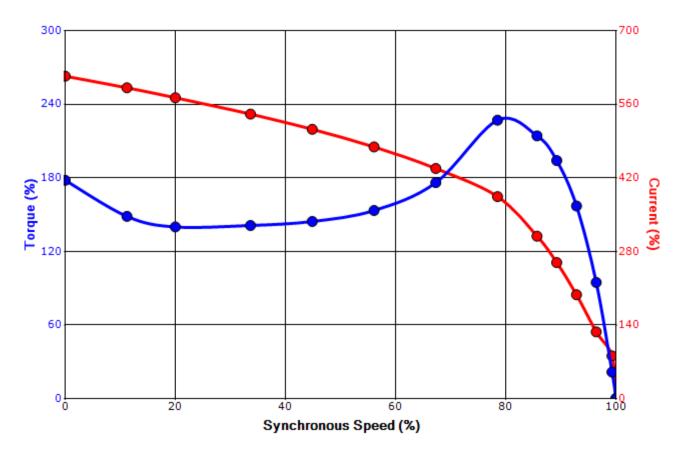
Issued Date	6/19/2025	Transmit #	
Issued By	dschoeck	Issued Rev	

## SPEED TORQUE/CURRENT CURVE

Model: 3/46SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.75	0.55	6	950	143TC	190/380	50	3	3.0/1.5
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	78.5	-		40 C
Looked Deter	Rotor wk <sup>2</sup>				Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	Locked Rotor			Break Down	
Allips	(lb-ft²)	(lb-ft)	(%	(%)			(%)	
9.2	0.15	4.15	175		145		22	25

# Design Values





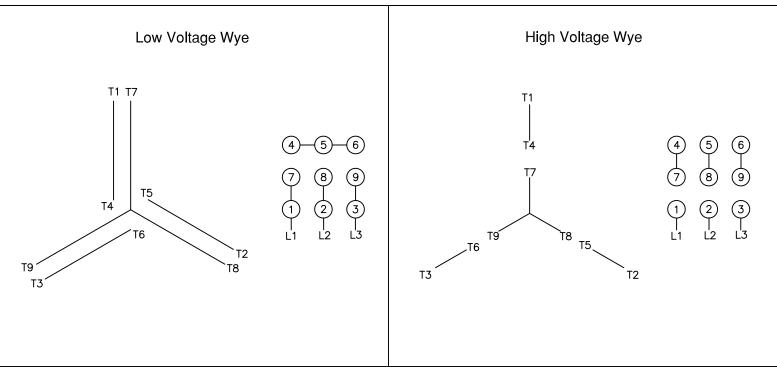
Customer	wk² Load Inertia (Ib-f	2) -
Customer PO	Load Typ	е -
Sales Order	Voltage (%	6) 100
Project #	Accel. Tim	е -

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0			
Engr. Date	4/1/2014	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



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

Model: 3/46SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.75	0.55	6	1170	143TC	230/460	60	3	2.6/1.3
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	80.0	В		40 C

 Bearings DE
 6305C3 / 25BC03J3OX

 Bearings NDE
 6305C3 / 25BC03J3OX

\*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:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.							
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Engr. Date	11/20/2019	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011		