

UNITS: INCHES ROTATION FROM NDE

- 2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION 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

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TOTALLY ENCLOSED FAN COOLED HORIZONTAL FOOT MOUNTED 3 PHASE INDUCTION MOTOR 143T-145T

DRAWING #: MDSLV001-01

REV. DATE: 06/19/18 REV. #: 4 PER.: M. O'DOWD

REV. DESCRIP.:

F1 ASSEMBLY

TOSHIBA INTERNATIONAL CORPORATION



Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

## **TYPICAL MOTOR PERFORMANCE DATA**

Model: 0022SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	2	3490	145TC	230/460	60	3	5.2/2.6
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	L	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	2	1.5	2.6	85.6	84.4
¾ Load	1.50	1.1	2.0	84.9	79.8
½ Load	1.00	0.7	1.6	82.2	69.5
¼ Load	0.50	0.4	1.3	72.8	48.9
No Load			1.2		8.5
Locked Rotor			24		76.1

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
3.01	275	245	360	0.06			

Safe Stall	Time(s)	Sound	Pressure Bearings*		Approx. Motor Weight
Cold	Hot	Pressure dB(A) @ 1M			(lbs)
		UD(A) (@ IM	DE	NDE	(ibs)
27	15	-	6305ZZC3	6305ZZC3	66

\*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 #	

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Engineering	mcampbell	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1		
Engr. Date	2/27/2012	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019		



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## **TYPICAL MOTOR PERFORMANCE DATA**

Model: 0022SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	2	2855	145TC	190/380	50	3	6.4/3.2
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	80	В	L	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	2	1.5	3.2	84.0	84.5
¾ Load	1.50	1.1	2.4	85.4	79.6
½ Load	1.00	0.7	1.8	84.9	69.3
∕₄ Load	0.50	0.4	1.4	70.9	56.3
No Load			1.0		9.4
Locked Rotor			30		97.2

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
3.68	190	180	240	0.06			

Safe Stall	Time(s)	Sound	Bearings*		Sound Bearings* Approx Motor		Approx. Motor Weight
Cold	Hot	Pressure					
		dB(A) @ 1M	DE	NDE	(Ibs)		
11	5	-	6305ZZC3	6305ZZC3	66		

\*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 #	

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TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.										
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1					
Engr. Date	4/7/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019					



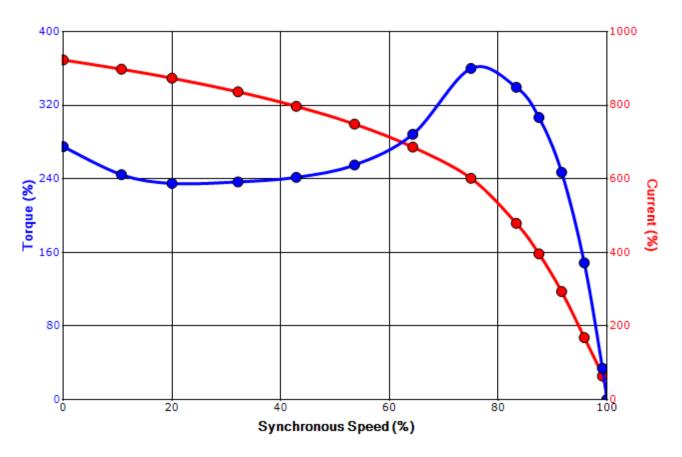
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

#### SPEED TORQUE/CURRENT CURVE

Model: 0022SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	2	3490	145TC	230/460	60	3	5.2/2.6
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	L	40 C
Looked Beter	Rotor wk <sup>2</sup>				Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull Up	)	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	<b>6</b> )	(%)		(%	6)
24	0.06	3.01	275		245	_	36	60

# Design Values





Customer	wk² Load Inerti	a (lb-ft²)
Customer PO	Lo	ad Type
Sales Order	Vol	<b>age (%)</b> 100
Project #	Acc	el. Time -

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Engineering	mcampbell	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1				
Engr. Date	2/27/2012	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019				



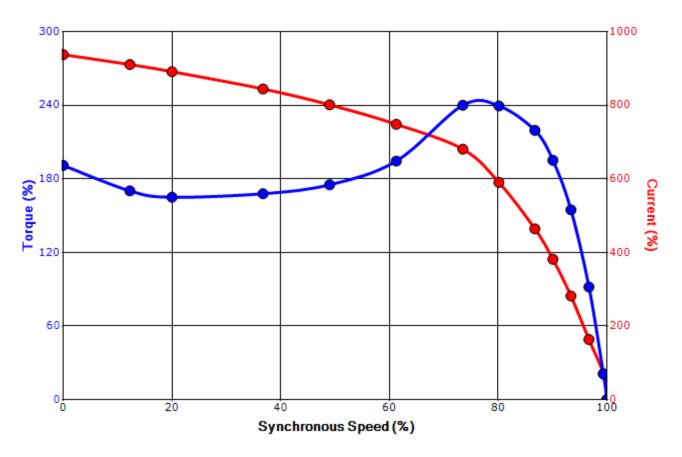
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HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	2	2855	145TC	190/380	50	3	6.4/3.2
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	80	В	L	40 C
Laskad Datas	Rotor wk²	-			Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull U	р	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	6)	(%)		(%	<b>6</b> )
30	0.06	3.68	190		180		24	10

# Design Values





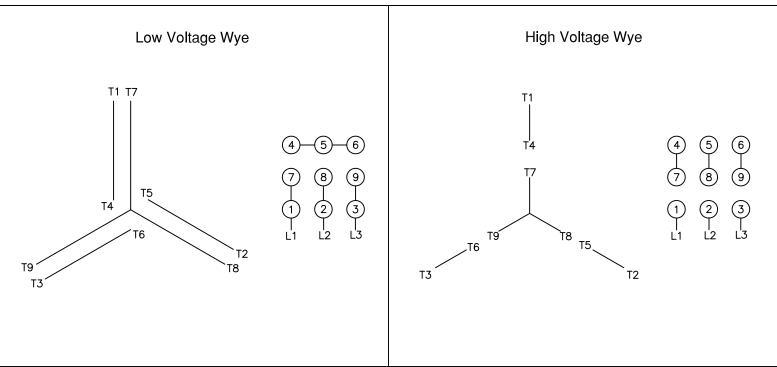
Customer	wk² Load Inerti	a (lb-ft²)
Customer PO	Lo	ad Type
Sales Order	Vol	<b>age (%)</b> 100
Project #	Acc	el. Time -

Tag:

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Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1				
Engr. Date	4/7/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019				

# 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