

UNITS: INCHES

ROTATION FROM NDE

X CCW CW

- 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

TOSHIBA www.toshiba.com/tic

TOSHIBA INTERNATIONAL CORPORATION



TOTALLY ENCLOSED FAN COOLED
HORIZONTAL FOOT MOUNTED
3 PHASE INDUCTION MOTOR
143T-145T F1 ASSEMBLY

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

REV. DESCRIP.:

INLV. DEGOINI ..



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	Bearin	Approx. Motor Weight		
Cold	Hot Pressure dB(A) @ 1M		DE NDE		(lbs)	
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 #	

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.							
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		



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	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
1/4 Load	0.50	0.4	1.4	70.9	56.3
No Load			1.0		9.4
Locked Rotor			30	1	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		

Ĺ	Safe Stall Time(s)		Sound	Bearin	Bearings*		
	Cold	Hot	Pressure dB(A) @ 1M	DE	NDE NDE	Approx. Motor Weight (Ibs)	
ŀ			CD(A) (a) TW	DE	NDE	(IDS)	
	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 #	

Tag:

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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						



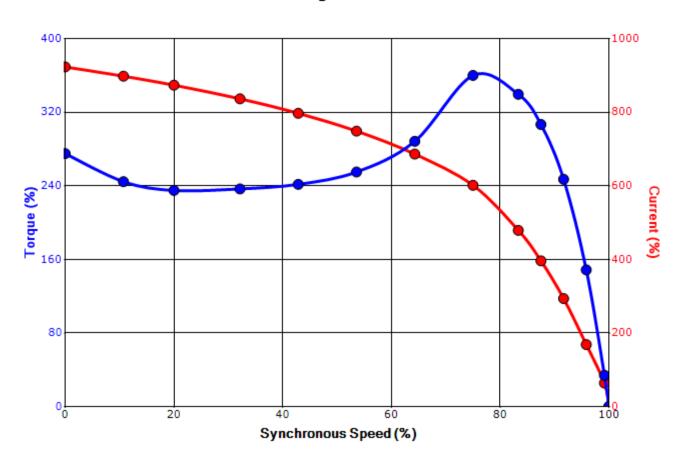
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

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
Locked Rotor Amps Rotor wk² Inertia (lb-ft²)	Rotor wk²	Torque						
	Inertia	Full Load	Locked	Rotor	Pull U	р	Break	Down
	(lb-ft²)	(lb-ft)	(%	6)	(%)		(%	%)
24	0.06	3.01	275		245		30	30

Design Values





Customer	wk² Load Inertia (lb-	
Customer PO	Load Ty	oe -
Sales Order	Voltage (/6) 100
Project #	Accel. Tir	re -

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.									
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				



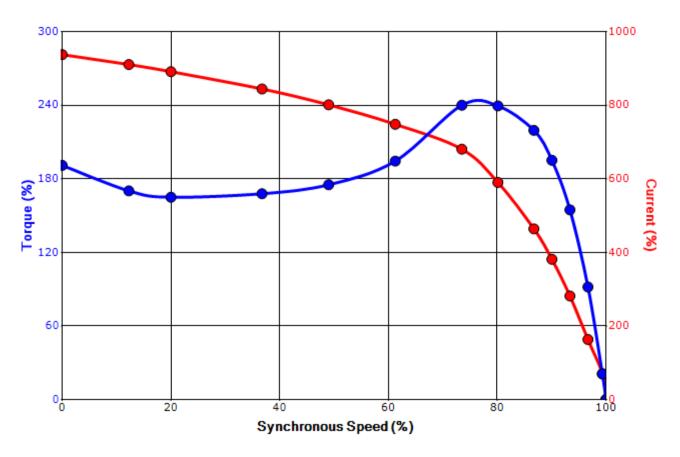
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Model: 0022SDSR42A-P

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
Laskad Datas	Rotor wk ²				Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	Rotor	Pull U	p	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	6)	(%)		(%	%)
30	0.06	3.68	190		180	_	24	40

Design Values





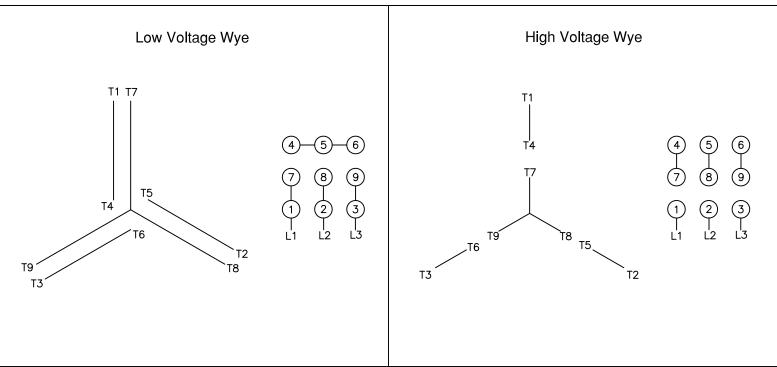
Customer	wk² Load Inertia (b-ft²)
Customer PO	Load	Туре -
Sales Order	Voltag	e (%) 100
Project #	Accel.	Time -

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.									
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