

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 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
FOOTED C-FACED
3 PHASE INDUCTION MOTOR
143TC-145TC F1 ASSEMBLY



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

TYPICAL MOTOR PERFORMANCE DATA

Model: 0024SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	4	1750	145TC	230/460	60	3	5.6/2.8
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	2.00	1.5	2.8	87.1	75.8
¾ Load	1.50	1.1	2.3	86.8	69.8
½ Load	1.00	0.7	1.9	84.4	58.4
¼ Load	0.50	0.4	1.3	77.4	44.6
No Load			11.6		1.9
Locked Rotor			22		53.7

Torque								
Full Load	Locked Rotor	Pull Up	Break Down	Inertia				
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)				
6.00	270	205	335	0.15				

Safe Stall	Time(s)	Sound	Bearin	une*	Approx. Motor Weight	
Cold	Hot	Pressure	Bearings*		Approx. Motor Weight	
Colu	1100	dB(A) @ 1M	DE	NDE	(lbs)	
32	27	-	6305ZZC3	6305ZZC3	62	

*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	6/17/2025	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



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TYPICAL MOTOR PERFORMANCE DATA

Model: 0024SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	4	1430	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	83.5	-		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	2.00	1.5	3.3	83.7	82.7
¾ Load	1.50	1.1	2.5	85.2	78.2
½ Load	1.00	0.7	1.9	84.3	68.1
¼ Load	0.50	0.4	1.3	79.4	55.0
No Load			1.4		8.5
Locked Rotor			34		71.4

Torque								
Full Load	Locked Rotor	Pull Up	Break Down	Inertia				
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)				
7.35	215	165	235	0.15				

Safe Stall	Time(s)	Sound Bearings*		Approx. Motor Weight		
Cold	Hot	Pressure			1	
		dB(A) @ 1M	DE	NDE	(lbs)	
32	22	-	6305ZZC3	6305ZZC3	62	

*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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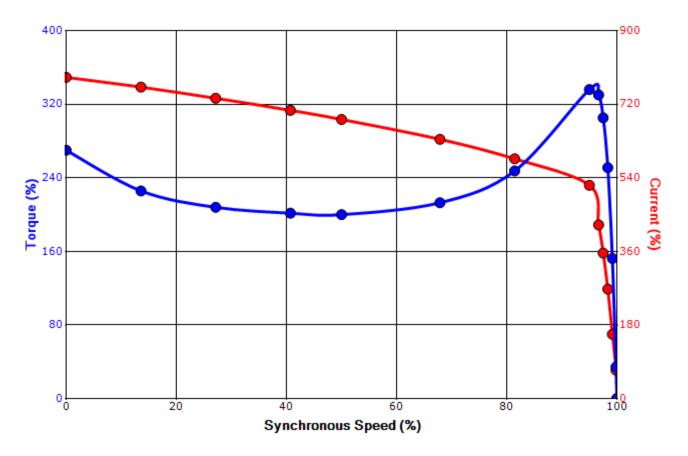
Issued Date	6/19/2025	Transmit #	
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SPEED TORQUE/CURRENT CURVE

Model: 0024SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	4	1750	145TC	230/460	60	3	5.6/2.8
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 ²				Torque			
Locked Rotor Amps	Inertia Full Load Locked Rotor Pull Up			Break	Down			
Amps	(lb-ft²)	(lb-ft)	(%	(%)			(%	6)
22	0.15	6.00	270		205		335	

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 bmammen Doc. Written By D. Suarez Doc.# / Rev MPCF								
Engr. Date	6/17/2025	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



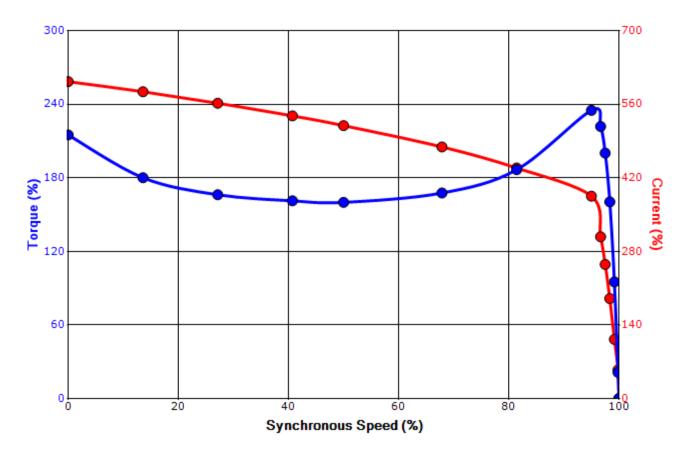
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SPEED TORQUE/CURRENT CURVE

Model: 0024SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	4	1430	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	83.5	-		40 C
Looked Deter	Rotor wk ²				Torque			
Locked Rotor	I Inertia I Full		Locked	Rotor	Pull Up		Break	Down
Amps	(lb-ft²)	(lb-ft)	(%)		(%)		(%)	
34	0.15	7.35	215		165		235	

Design Values





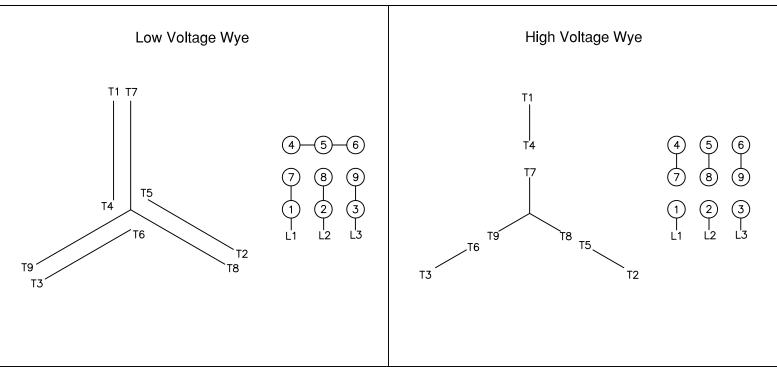
Customer	wk² Load Inertia (Ib-f	2) -
Customer PO	Load Typ	е -
Sales Order	Voltage (%	6) 100
Project #	Accel. Tim	е -

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
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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: 0024SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
2	1.5	4	1750	145TC	230/460	60	3	5.6/2.8
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
 6305ZZC3 / 25BC03JPP3OA

 Bearings NDE
 6305ZZC3 / 25BC03JPP3OA

*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 #	

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