

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

0.375"x 0.375"x 2.88"

(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
254TC-256TC F1 ASSEMBLY

DRAWING #: MDSLV003-04

REV. DATE: 06/29/18 REV. #: 1 PER.: M. O'DOWD

REV. DESCRIP.:



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

TYPICAL MOTOR PERFORMANCE DATA

Model: 0154SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	4	1770	254TC	230/460	60	3	40/20
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	75.0	В		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)	
Full Load	15.00	11.2	20	92.6	75.2	
¼ Load	11.25	8.4	16.2	91.6	70.6	
∕₂ Load	7.50	5.6	12.7	89.2	61.7	
∕₄ Load	3.75	2.8	8.6	82.5	49.1	
No Load			10.1		4.6	
Locked Rotor			118		37.3	

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
44.5	240	185	280	2.32			

Safe Stall	Time(s)	Sound	Bearin	ine*	Approx. Motor Weight	
Cold	Hot	Pressure	Bearings*		Approx. Motor Weight	
		dB(A) @ 1M	DE	NDE	(lbs)	
35	15	-	6309ZZC3	6309ZZC3	298	

*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	5/5/2025	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



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

TYPICAL MOTOR PERFORMANCE DATA

Model: 0154SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	4	1455	254TC	190/380	50	3	46/23
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	89.8	В		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	15.00	11.2	22	90.1	82.8
¾ Load	11.25	8.4	17.7	89.9	79.7
½ Load	7.50	5.6	13.4	88.3	71.9
¼ Load	3.75	2.8	9.0	82.3	56.9
No Load			7.5		6.2
Locked Rotor			109		39.4

Torque								
Full Load	Locked Rotor	Pull Up	Break Down	Inertia				
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)				
54.1	190	145	215	2.32				

Safe Stall	Time(s)	Sound	Bearin	une*	Approx. Motor Weight	
Cold	Hot	Pressure	Bearings*		Approx. Wotor Weight	
00.0	1101	dB(A) @ 1M	DE	NDE	(lbs)	
35	15	-	6309ZZC3	6309ZZC3	298	

*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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TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	Engineering bmammen Doc. Written By D. Suarez Doc.# / Rev MPC							
Engr. Date	5/5/2025	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



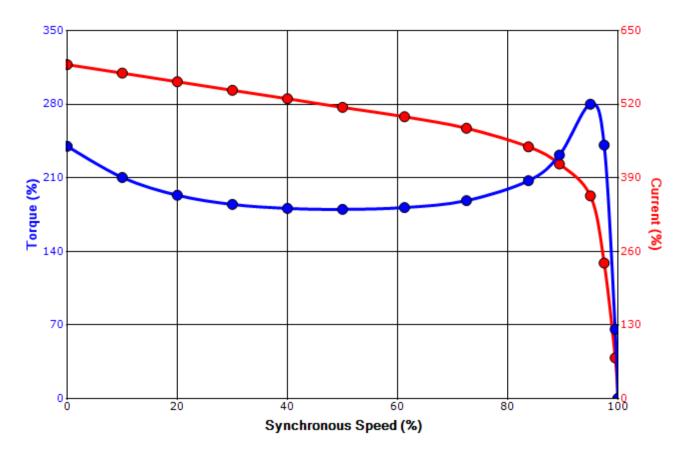
Issued Date	6/19/2025	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 0154SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	4	1770	254TC	230/460	60	3	40/20
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	75.0	В		40 C
Locked Rotor	Rotor wk ²		Torque					
Amps	Inertia	Full Load	Locked	Rotor	Pull Up		Break Down	
Amps	(lb-ft²)	(lb-ft)	(%)		(%)		(%	6)
118	2.32	44.5	24	240		185		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 bmammen Doc. Written By D. Suarez Doc.# / Rev M								
Engr. Date	5/5/2025	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



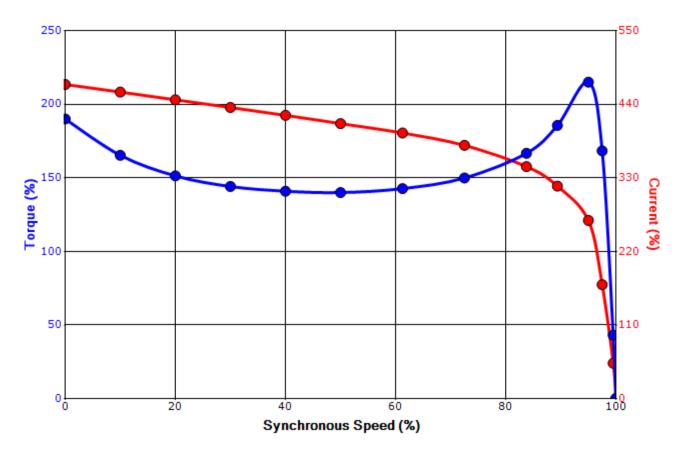
Issued Date	6/19/2025	Transmit #	
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SPEED TORQUE/CURRENT CURVE

Model: 0154SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	4	1455	254TC	190/380	50	3	46/23
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	89.8	В		40 C
Looked Boton	Rotor wk ²		Torque					
Locked Rotor Amps	Inertia	Full Load	Locked	Rotor	Pull Up		Break Down	
Amps	(lb-ft²)	(lb-ft)	(%)		(%)		(%	6)
109	2.32	54.1	19	190		145		15

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 M								
Engr. Date	5/5/2025	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			

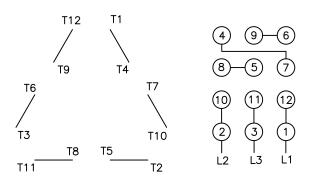
Motor Connection Diagrams 12 Leads

Across-the-Line Starting / Running Connections

Low Voltage Delta



High Voltage Delta



Switch L1 and L2 to reverse rotation

Suitable for Wye-Delta Starting and Limited Part-Winding-Starting. Please Contact Toshiba International for specific connections.

By: R. Murillo Date: 4/9/08 Checked: MDC Date: 5/17/11 Revision 1



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

Model: 0154SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	4	1770	254TC	230/460	60	3	40/20
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	75.0	В		40 C

 Bearings DE
 6309ZZC3 / 45BC03JPP3OA

 Bearings NDE
 6309ZZC3 / 45BC03JPP3OA

*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.							
Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1125 / 0		
Engr. Date	5/5/2025	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011		