

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

0.500"x 0.500"x 3.25"

(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
ROUND BODY C-FACED
3 PHASE INDUCTION MOTOR
284TC-286TC F1 ASSEMBLY

DRAWING #:	MDSLV205-	05			
REV. DATE:	07/05/18	REV. #:	1	PER.: M. O'DOW	'D
REV. DESCRIP.:					



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

TYPICAL MOTOR PERFORMANCE DATA

Model: 0156SDSR44A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	6	1175	284TC	230/460	60	3	39.2/19.6
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	91.7	В		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)	
Full Load	15.00	11.2	19.6	92.2	77.6	
¾ Load	11.25	8.4	15.8	91.8	72.2	
½ Load	7.50	5.6	12.5	89.9	62.1	
¼ Load	3.75	2.8	8.3	84.8	49.8	
No Load			9.3		4.5	
Locked Rotor			118		43.0	

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
67.0	255	165	285	4.68			

Safe Stall	Safe Stall Time(s)		Bearin	Approx. Motor Weight	
Cold	Cold Hot		· ·		
Oolu	1100	dB(A) @ 1M	DE	NDE	(lbs)
35	15	-	6310ZC3	6310ZC3	381

*Bearings are the only recommended spare part(s).

Motor Options: Product Family:EQP Global SD Mounting:C-Face Round,Shaft:T Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0			
Engr. Date	7/12/2024	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: 0156SDSR44A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	6	965	284TC	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	88.7	В		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	15.00	11.2	23	89.2	81.3
¾ Load	11.25	8.4	18.3	89.8	77.5
½ Load	7.50	5.6	13.9	88.9	68.7
¼ Load	3.75	2.8	9.2	84.5	54.4
No Load			9.2		5.3
Locked Rotor			115		42.8

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
81.6	185	135	225	4.68			

Safe Stall Time(s)		Sound	Bearin	une*	Approx. Motor Weight	
Cold	Hot	Pressure	Bearing			
Cold Hot		dB(A) @ 1M	DE	NDE	(lbs)	
35	15	-	6310ZC3	6310ZC3	381	

*Bearings are the only recommended spare part(s).

Motor Options: Product Family:EQP Global SD Mounting:C-Face Round,Shaft:T Shaft

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TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.							
Engineering	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0		
Engr. Date	7/15/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011		



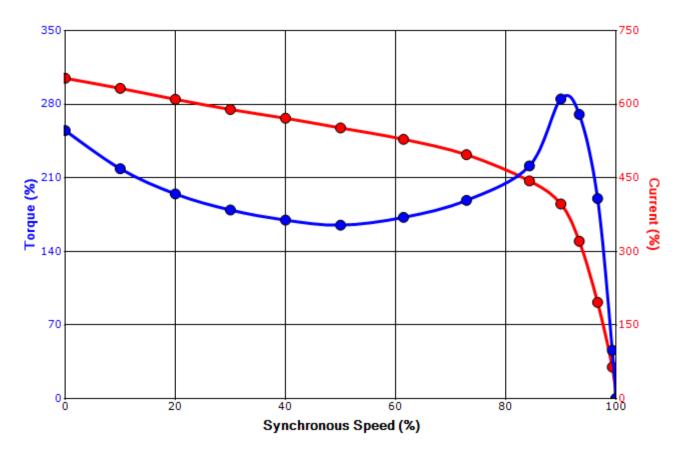
Issued Date	6/19/2025	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 0156SDSR44A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	6	1175	284TC	230/460	60	3	39.2/19.6
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	91.7	В		40 C
Locked Rotor	Rotor wk ²				Torque			
Amps	Inertia	Full Load	Locked	Rotor	Pull Up)	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	b)	(%)		(%	6)
118	4.68	67.0	25	5	165		28	35

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	zxie	Doc. Written By	D. Suarez	Doc.#/Rev	MPCF-1121 / 0		
Engr. Date	7/12/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011		



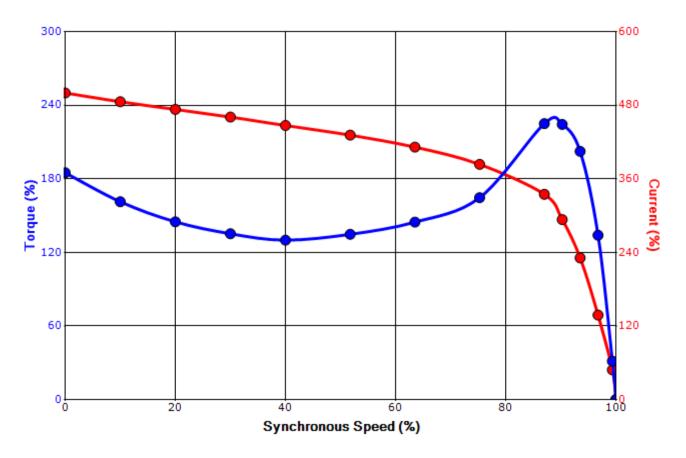
Issued Date	ssued Date 6/19/2025		
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 0156SDSR44A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	6	965	284TC	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	88.7	В		40 C
Locked Rotor	Rotor wk ²	Torque						
Amps	Inertia	Full Load	Locked	Rotor	Pull Up		Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	b)	(%)		(%	6)
115	4.68	81.6	18	5	135		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	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0		
Engr. Date	7/15/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011		

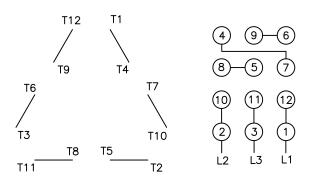
Motor Connection Diagrams 12 Leads

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 #:	
Issued By:	dschoeck	Issued Rev:	

SPARE PARTS LIST*

Model: 0156SDSR44A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	6	1175	284TC	230/460	60	3	39.2/19.6
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	91.7	В		40 C

 Bearings DE
 6310ZC3 / 50BC03JP3OX

 Bearings NDE
 6310ZC3 / 50BC03JP3OX

*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	zxie	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1125 / 0					
Engr. Date	7/12/2024	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011					