

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

TOSHIBA www.toshiba.com/tic



TOTALLY ENCLOSED FAN COOLED **ROUND BODY C-FACED** 3 PHASE INDUCTION MOTOR F1 ASSEMBLY 284TC-286TC

DRAWING #: MDSLV205-05

REV. DATE: 07/05/18 REV. #: 1 PER.: M. O'DOWD

REV. DESCRIP.:



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

TYPICAL MOTOR PERFORMANCE DATA

Model: 0304SDSR44A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
30	22	4	1770	286TC	230/460	60	3	72/36
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	93.6	В	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	30	22.4	36.0	93.8	83.6
¾ Load	22.50	16.8	28.3	93.2	80.9
½ Load	15.00	11.2	21.6	91.6	73.7
∕₄ Load	7.50	5.6	16.4	85.0	50.1
No Load			12.7		5.4
Locked Rotor			217		34.1

Torque						
Full Load	Locked Rotor	Pull Up	Break Down	Inertia		
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)		
89	185	165	290	5.70		

	Cold I Hot I		Sound	Bearin	Approx. Motor Weight	
			Pressure dB(A) @ 1M	DE	NDE	(lbs)
l	35	15	-	6310ZC3	6310ZC3	509

*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:

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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	3/13/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019				



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TYPICAL MOTOR PERFORMANCE DATA

Model: 0304SDSR44A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
30	22	4	1460	286TC	190/380	50	3	88/44
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	92.4	В	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	30	22.4	44.0	93.7	83.5
¾ Load	22.50	16.8	33.6	94.4	80.8
½ Load	15.00	11.2	24.7	94.5	73.7
¼ Load	7.50	5.6	17.6	85.7	56.1
No Load			12.9		4.7
Locked Rotor			256		34.2

Torque						
Full Load	Locked Rotor	Pull Up	Break Down	Inertia		
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)		
108	150	125	230	5.70		

Safe Stal	Safe Stall Time(s) Sound Cold Hot Pressure dB(A) @ 1M		Bearin	Approx. Motor Weight	
Cold			DE NDE		
23	10	-	6310ZC3	6310ZC3	509

*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:

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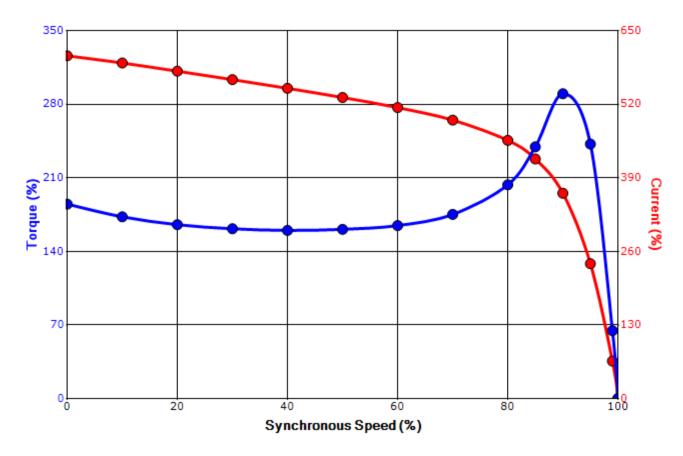
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 0304SDSR44A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
30	22	4	1770	286TC	230/460	60	3	72/36
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	93.6	В	G	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)	(%)		(%)		(%	%)
217	5.70	89	185		165		29	90

Design Values





Customer	wk² Load Inertia (lb-	(t²) -
Customer PO	Load Ty	pe -
Sales Order	Voltage	%) 100
Project #	Accel. Ti	ne -

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1			
Engr. Date	3/13/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019			



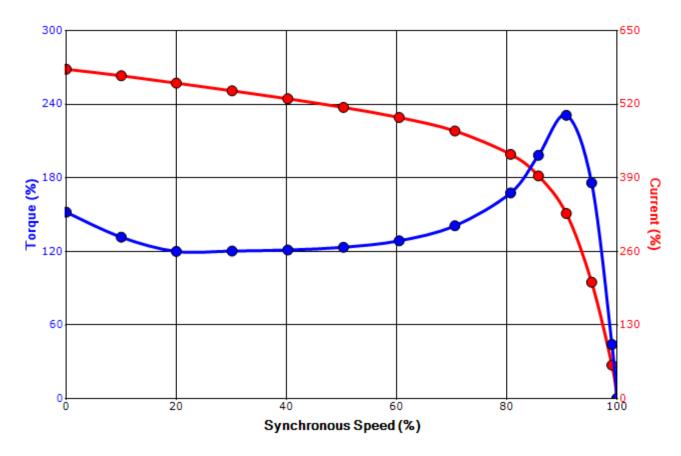
Issued Date	12/18/2019	Transmit #	
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SPEED TORQUE/CURRENT CURVE

Model: 0304SDSR44A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
30	22	4	1460	286TC	190/380	50	3	88/44
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	92.4	В	G	40 C
Leeleed Deter	Rotor wk²				Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull U	р	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%)		(%)		(%	%)
256	5.70	108	150		125		2:	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	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1			
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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