

UNITS: INCHES ROTATION FROM NDE

- 2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE.
- 3. KEY DIMENSIONS EQUAL

0.375"x 0.375"x 1.88"

(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

TOSHIBA www.toshiba.com/tic



TOTALLY ENCLOSED FAN COOLED **FOOTED C-FACED** 3 PHASE INDUCTION MOTOR

284TSC-286TSC

F1 ASSEMBLY

DRAWING #: MDSLV006-05

REV. #: 0 PER.: M. O'DOWD REV. DATE: 07/05/18

REV. DESCRIP.:

TOSHIBA INTERNATIONAL CORPORATION



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

TYPICAL MOTOR PERFORMANCE DATA

Model: 0302SDSR42B-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
30	22	2	3540	286TSC	230/460	60	3	70/35
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	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	30	22.4	35.0	91.9	88.9
¾ Load	22.50	16.8	27.1	91.0	86.5
∕₂ Load	15.00	11.2	19.9	88.9	80.7
∕₄ Load	7.50	5.6	14.0	80.9	62.0
No Load			9.2		11.0
_ocked Rotor			217		38.1

Torque								
Full Load	Locked Rotor	Pull Up	Break Down	Inertia				
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)				
44.5	215	195	265	3.58				

	Safe Stall	Time(s)	Sound	Bearin	une*	Approx. Motor Weight (lbs)	
	Cold	Hot	Pressure dB(A) @ 1M	DE	NDE		
l	35	15	-	6310ZC3	6310ZC3	509	

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

Motor Options:
Product Family:EQP Global SD CFace Footed
Mounting:C-Face Footed,Shaft:TS Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

	TOSHIBA INTE	RNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.				
Engineering	aacosta	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1	
Engr. Date	4/19/2012	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: 0302SDSR42B-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
30	22	2	2920	286TSC	190/380	50	3	84/42
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	91	В	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	30	22.4	42.0	92.4	88.0
¼ Load	22.50	16.8	32.4	93.3	85.9
½ Load	15.00	11.2	23.0	93.3	80.1
∕₄ Load	7.50	5.6	15.0	82.0	68.7
No Load			9.0		8.3
Locked Rotor			287		35.8

Torque								
Full Load	Locked Rotor	Pull Up	Break Down	Inertia				
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)				
54	165	145	220	3.58				

Safe Stall	Time(s)	Sound	Bearin	ine*	Approx. Motor Weight (lbs)	
Cold	Hot	Pressure dB(A) @ 1M	DE	NDE		
		ав(A) @ 1₩			,	
28	11	-	6310ZC3	6310ZC3	509	

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

Motor Options:
Product Family:EQP Global SD CFace Footed
Mounting:C-Face Footed,Shaft:TS Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1			
Engr. Date	6/17/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019			



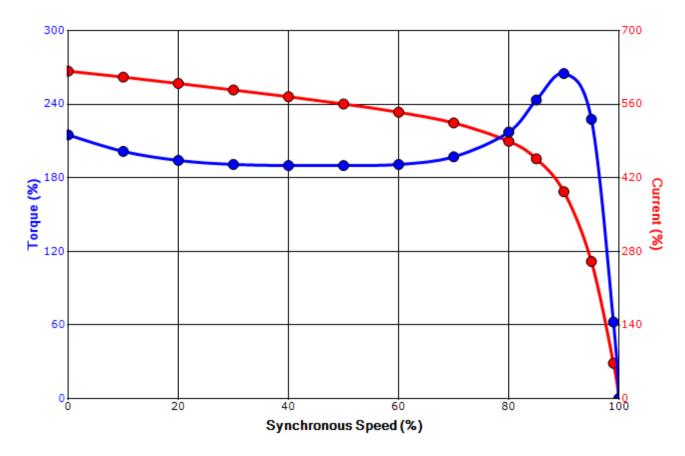
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 0302SDSR42B-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
30	22	2	3540	286TSC	230/460	60	3	70/35
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	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	3.58	44.5	215		195		20	3 5

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	aacosta	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1			
Engr. Date	4/19/2012	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019			



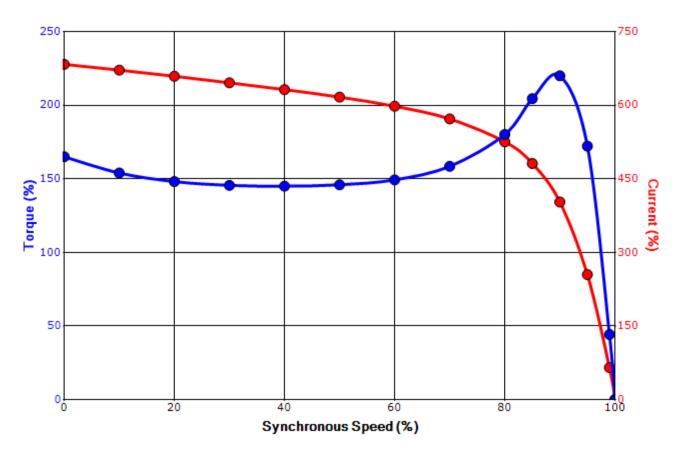
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 0302SDSR42B-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
30	22	2	2920	286TSC	190/380	50	3	84/42
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	91	В	G	40 C
Laskad Datas	Rotor wk ²				Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	d Rotor	Pull U	р	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%)		(%)		(%	%)
287	3.58	54	165		145		22	20

Design Values





Customer	wk² Load Inertia (lb-f	2) -
Customer PO	Load Typ	е -
Sales Order	Voltage (^o	6) 100
Project #	Accel. Tin	

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1			
Engr. Date	6/17/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019			

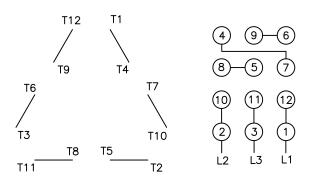
Motor Connection Diagrams 12 Leads

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