

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

TOSHIBA www.toshiba.com/tic



TOTALLY ENCLOSED FAN COOLED
FOOTED C-FACED
3 PHASE INDUCTION MOTOR
254TC-256TC F1 ASSEMBLY

DRAWING #: MDSLV003-04

REV. DATE: 06/29/18

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

REV. DESCRIP.:

TOSHIBA INTERNATIONAL CORPORATION



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

TYPICAL MOTOR PERFORMANCE DATA

Model: 0204SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
20	15	4	1770	256TC	230/460	60	3	50/25
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	93	В	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	20	14.9	25.0	93.3	81.0
¾ Load	15.00	11.2	20.4	92.6	78.1
½ Load	10.00	7.5	16.1	90.7	70.4
¼ Load	5.00	3.7	11.1	83.7	50.0
No Load			9.8		5.4
Locked Rotor			145		44.4

Torque								
Full Load	Locked Rotor	Pull Up	Break Down	Inertia				
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)				
59.3	260	215	280	3.18				

Safe Stall	Time(s)	Sound	Pressure Bearings*		Approx. Motor Weight (lbs)	
Cold	Hot	Pressure dB(A) @ 1M				
34	23	-	6309ZZC3	6309ZZC3	359	

*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:

, or a a a conocido a a a a a	a what accounts and an owner of the account real account of the ac								
	TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	jhock	Doc. Written By	D. Suarez	Doc.#/Rev	MPCF-1119 / 1				
Engr. Date	3/11/2014	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: 0204SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
20	15	4	1460	256TC	190/380	50	3	64/32
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	91	В	Е	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	20	14.9	32.0	92.6	77.0
¾ Load	15.00	11.2	23.2	92.9	74.2
½ Load	10.00	7.5	16.8	92.2	66.9
¼ Load	5.00	3.7	11.8	84.7	56.6
No Load			10.3		4.8
Locked Rotor			150		44.4

Torque							
Full Load	Locked Rotor Pull Up Break Down		Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
71.9	205	175	205	3.18			

Į	Safe Stall	Time(s)	Sound	Bearin	une*	Approx. Motor Weight	
	Cold	Hot	Pressure dB(A) @ 1M	Bearings* DE NDE		(lbs)	
ŀ	38	18	-	6309ZZC3	6309ZZC3	359	

*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:

, or a a a conocido a a a a a	and the state of t								
TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.									
Engineering	jhock	Doc. Written By	D. Suarez	Doc.#/Rev	MPCF-1119 / 1				
Engr. Date	3/11/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019				



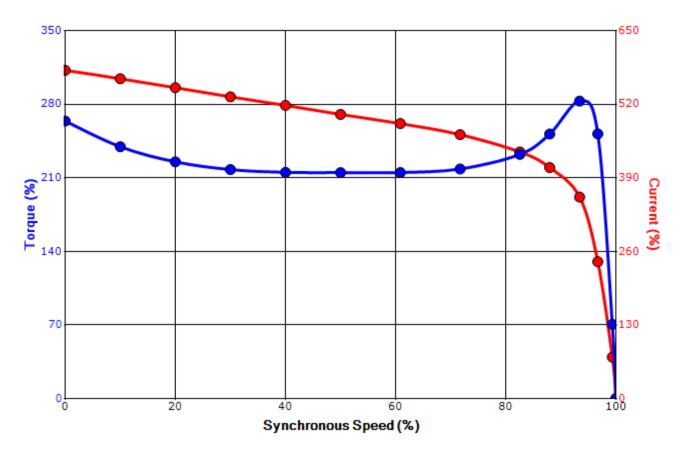
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 0204SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
20	15	4	1770	256TC	230/460	60	3	50/25
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	93	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)	(%	6)	(%)		(%	%)
145	3.18	59.3	260		215		28	30

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	3/11/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019			



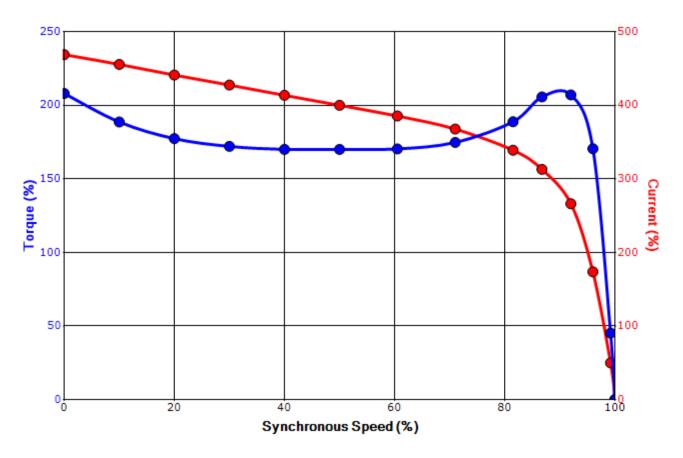
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 0204SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
20	15	4	1460	256TC	190/380	50	3	64/32
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	91	В	E	40 C
Lealerd Dates	Rotor wk²	_		-	Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull U	р	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	6)	(%)		(%	%)
150	3.18	71.9	205		175		20	05

Design Values





Customer	wk² Load Inertia (lb-	
Customer PO	Load Ty	oe -
Sales Order	Voltage (/6) 100
Project #	Accel. Tir	re -

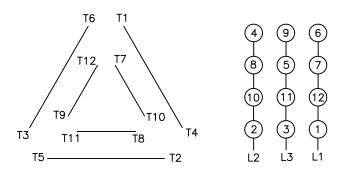
Tag:

iii sharastaristica are area age expected ratios.									
TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.									
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1				
Engr. Date	3/11/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019				

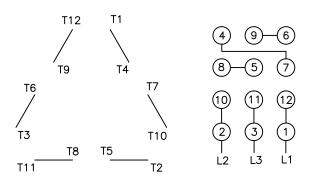
Motor Connection Diagrams 12 Leads

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