

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

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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.:

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	
¼ Load	15.00	11.2	20.4	92.6	78.1	
∕₂ Load	10.00	7.5	16.1	90.7	70.4	
∕₄ 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	Il Time(s) Sound Bearings*		Approx. Motor Weight		
Cold	Hot	Pressure			
		dB(A) @ 1M	DE	NDE	(lbs)
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 #	1

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	3/11/2014	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	
¼ Load	15.00	11.2	23.2	92.9	74.2	
∕₂ Load	10.00	7.5	16.8	92.2	66.9	
∕₄ Load	5.00	3.7	11.8	84.7	56.6	
No Load			10.3		4.8	
_ocked Rotor			150		44.4	

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

	Safe Stall	Time(s) Sound Bearings*		Approx. Motor Weight		
	Cold	Hot	Pressure dB(A) @ 1M	DE	NDE NDE	(lbs)
H	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	Ì
Sales Order	Ì
Project #	l

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.									
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1				
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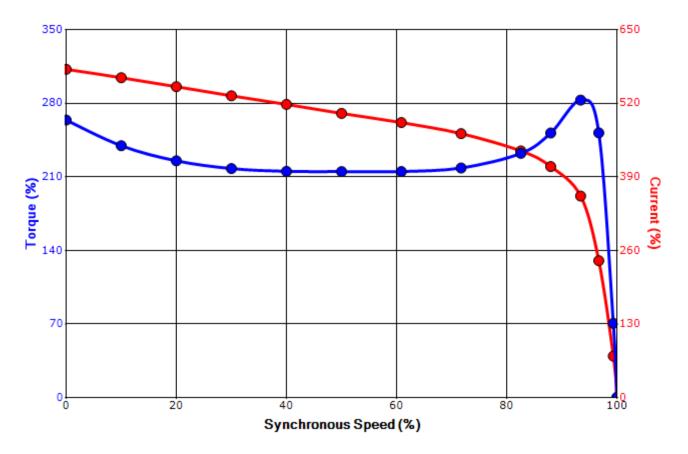
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

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
Looked Dates	Rotor wk ²				Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull U _l)	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	6)	(%)		(%	%)
145	3.18	59.3	260		215	_	28	30

Design Values





Customer	wk² Load Inertia (lb-ft²)	-
Customer PO	Load Type	-
Sales Order	Voltage (%)	100
Project #	Accel. Time	-

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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				



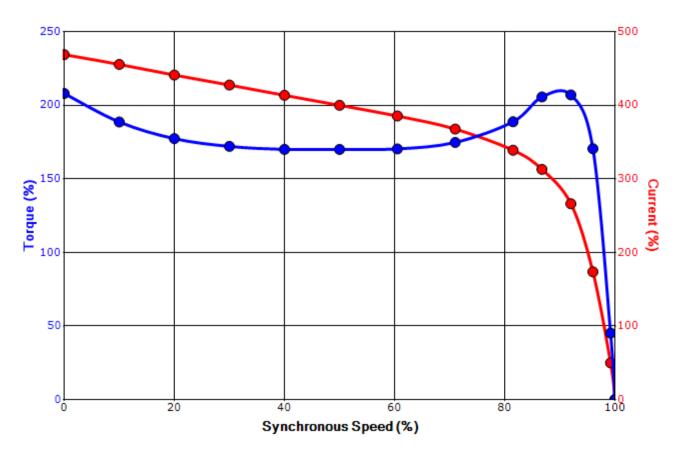
Issued Date	12/18/2019	Transmit #	
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SPEED TORQUE/CURRENT CURVE

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	Е	40 C
Looked Deter	Rotor wk ²				Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull U	р	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	6)	(%)		(%	6)
150	3.18	71.9	205		175		20)5

Design Values





Customer	wk² Load Inertia (lb-f	-
Customer PO	Load Ty	
Sales Order	Voltage (6) 100
Project #	Accel. Tin	ie -

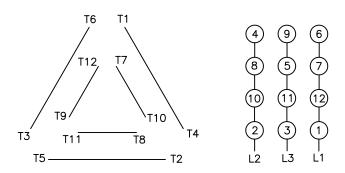
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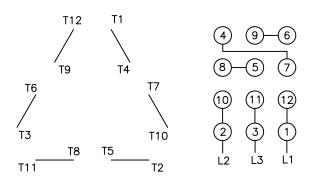
Motor Connection Diagrams 12 Leads

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