

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

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: 0202SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
20	15	2	3520	256TC	230/460	60	3	48/24
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	91	В	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	20	14.9	24.0	91.3	87.7
¾ Load	15.00	11.2	17.8	90.6	86.2
∕₂ Load	10.00	7.5	12.9	88.5	81.5
¼ Load	5.00	3.7	8.9	82.3	63.9
No Load			6.1		8.6
Locked Rotor			143		40.1

Torque							
Full Load	Full Load Locked Rotor Pull Up Break Down						
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
29.8	215	195	255	1.38			

Safe Stall	Time(s)	Sound	Bearings* DE NDE		Approx. Motor Weight
Cold	Hot	Pressure dB(A) @ 1M			(lbs)
		CD(A) @ INI			, ,
35	15	-	6309ZZC3	6309ZZC3	331

\*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:

TOSHIBA INTERNATIONAL 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: 0202SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
20	15	2	2890	256TC	190/380	50	3	58/29
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	88.5	В	G	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	20	14.9	29.0	91.6	88.5
¾ Load	15.00	11.2	21.7	92.3	87.1
∕₂ Load	10.00	7.5	15.2	92.1	82.3
∕₄ Load	5.00	3.7	9.7	82.4	70.3
No Load			5.8		7.8
Locked Rotor			191		38.2

Torque						
Full Load	Locked Rotor	Pull Up	Break Down	Inertia		
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)		
36.3	155	140	210	1.38		

Safe Stall	Time(s)	Sound	Bearings*		Approx. Motor Weight
Cold	Hot	Pressure			1
	dB(A) @ 2		DE	NDE	(Ibs)
30	12	-	6309ZZC3	6309ZZC3	331

\*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:

, G.: a. a. a. c. : 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	6/17/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019					



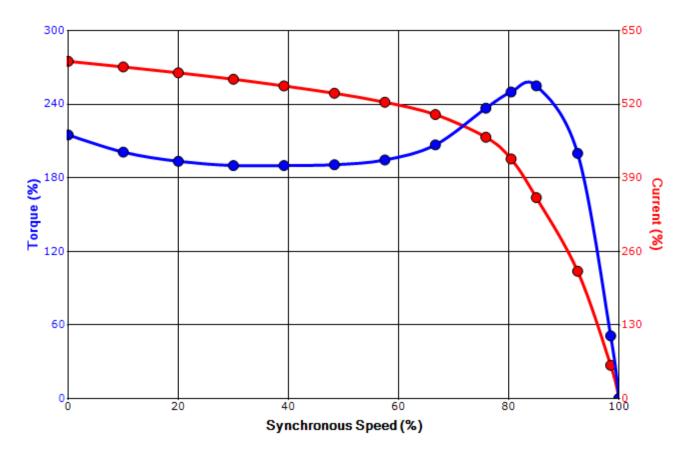
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

#### SPEED TORQUE/CURRENT CURVE

Model: 0202SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
20	15	2	3520	256TC	230/460	60	3	48/24
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	91	В	G	40 C
Lealind Dates	Rotor wk²				Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull U	р	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	<b>6</b> )	(%)		(%	<b>%</b> )
143	1.38	29.8	215		195		25	55

# Design Values





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

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				



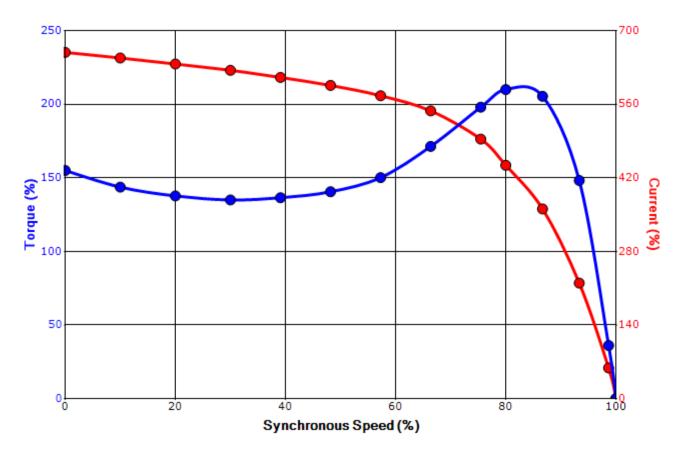
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

#### SPEED TORQUE/CURRENT CURVE

Model: 0202SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
20	15	2	2890	256TC	190/380	50	3	58/29
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	88.5	В	G	40 C
Lealind Dates	Rotor wk²	_			Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull U	р	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	<b>6</b> )	(%)		(%	<b>%</b> )
191	1.38	36.3	155		140		21	10

# Design Values





Customer	wk² Load Inerti	a (lb-ft²)
Customer PO	Lo	ad Type
Sales Order	Vol	<b>age (%)</b> 100
Project #	Acc	el. Time -

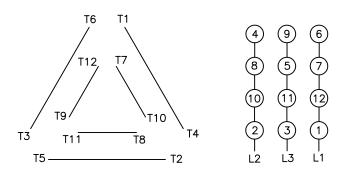
Tag:

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				

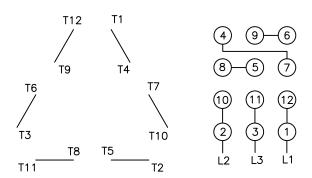
# Motor Connection Diagrams <a href="mailto:12">12 Leads</a>

### 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