

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: Y756SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
7.50	5.5	6	1170	254TC	230/460	60	3	19.7/9.9
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	91	В	Н	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	7.50	5.6	9.8	90.8	78.4
¾ Load	5.63	4.2	8.0	90.3	72.3
½ Load	3.75	2.8	6.5	88.3	60.6
¼ Load	1.88	1.4	5.5	80.6	39.1
No Load			4.6		5.7
Locked Rotor			63		47.1

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
33.7	255	240	315	2.16			

Safe Stall	Time(s)	Sound	Bearin	ine*	Approx. Motor Weight	
Cold	Hot	Pressure	Bearin	ys ————————————————————————————————————	Approx. Motor Weight	
Colu	1100	dB(A) @ 1M	DE	NDE	(lbs)	
35	15	-	6309ZZC3	6309ZZC3	298	

\*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	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1				
Engr. Date	6/5/2017	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019				



<b>Issued Date</b> 12/18/2019		Transmit #	
Issued By	dschoeck	Issued Rev	

#### **TYPICAL MOTOR PERFORMANCE DATA**

Model: Y756SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
7.50	5.5	6	960	254TC	190/380	50	3	24/12.2
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	Н	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)	
Full Load	7.50	5.6	12.2	91.0	74.5	
¾ Load	5.63	4.2	9.2	91.2	69.9	
½ Load	3.75	2.8	7.1	90.2	60.1	
1/4 Load	1.88	1.4	4.9	82.8	52.4	
No Load			4.5		5.5	
Locked Rotor			75		49.4	

Torque							
Full Load	Locked Rotor	Break Down	Inertia				
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
41	200	170	240	2.16			

Safe Stall	Time(s)	Sound	Bearin	ine*	Approx. Motor Weight	
Cold	Hot	Pressure dB(A) @ 1M	DE			
26	17	-	6309ZZC3	6309ZZC3	(lbs) 298	

\*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	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1			
Engr. Date	4/8/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019			



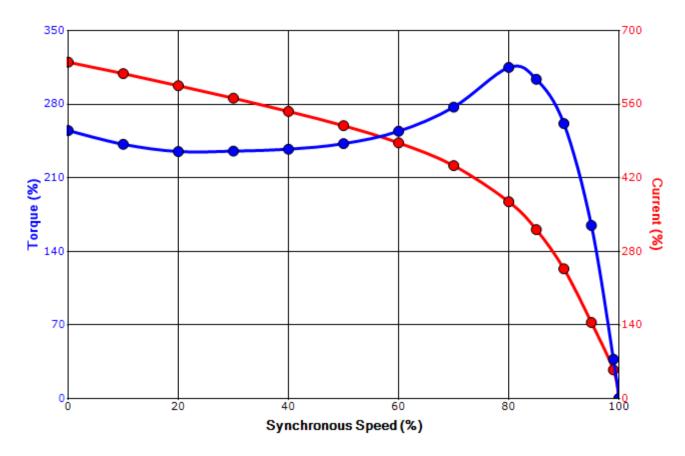
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	_

#### SPEED TORQUE/CURRENT CURVE

Model: Y756SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
7.50	5.5	6	1170	254TC	230/460	60	3	19.7/9.9
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	91	В	Н	40 C
Laskad Datas	Rotor wk²				Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull U	p	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	<b>%</b> )	(%)		(%	6)
63	2.16	33.7	255		240		3.	15

## 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	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1			
Engr. Date	6/5/2017	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019			



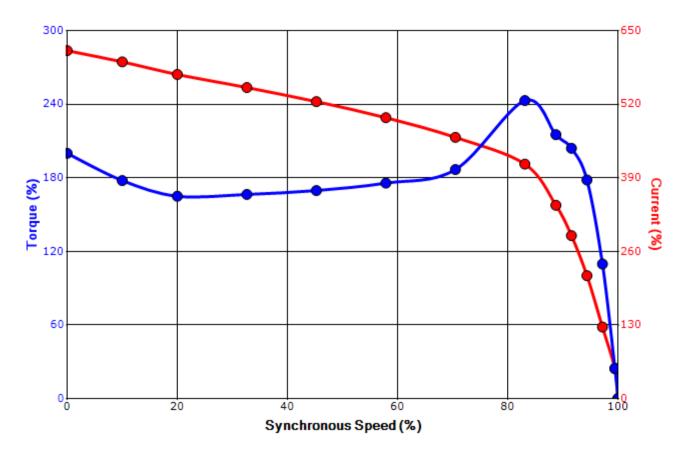
Issued Date	12/18/2019	Transmit #	
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#### SPEED TORQUE/CURRENT CURVE

Model: Y756SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
7.50	5.5	6	960	254TC	190/380	50	3	24/12.2
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	Н	40 C
Looked Dates	Rotor wk <sup>2</sup>				Torque			
Locked Rotor Inertia		Full Load	Locked Rotor		Pull U	р	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	<b>6</b> )	(%)		(%	<b>%</b> )
75	2.16	41	200		170		24	40

## Design Values





Customer	wk² Load Inertia (lb-	
Customer PO	Load Ty	oe -
Sales Order	Voltage (	<b>/6)</b> 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			
Engr. Date	4/8/2014	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