

UNITS: INCHES

ROTATION FROM NDE

X CCW CW

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

0.500"x 0.500"x 3.25"

(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

TOSHIBA INTERNATIONAL CORPORATION



TOTALLY ENCLOSED FAN COOLED
FOOTED C-FACED
3 PHASE INDUCTION MOTOR
284TC-286TC F1 ASSEMBLY

DRAWING #: MDSLV005-05

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

REV. DESCRIP.:

REV. DESCRIP.



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

TYPICAL MOTOR PERFORMANCE DATA

Model: 0156SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	6	1175	284TC	230/460	60	3	40/19.8
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	15	11.2	19.8	91.1	77.8
¾ Load	11.25	8.4	16.1	90.7	71.7
½ Load	7.50	5.6	13.1	88.8	60.1
¼ Load	3.75	2.8	11.1	81.6	38.7
No Load			9.2		5.7
Locked Rotor			116		46.8

Torque							
Full Load Locked Rotor		Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
67	240	215	260	4.68			

Safe	Stall Time(s)	Sound Bearings*		Approx. Motor Weight	
Cold	Hot	Pressure dB(A) @ 1M	DE	NDE	(lbs)
30	22	-	6310ZC3	6310ZC3	441

*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	10/3/2018	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: 0156SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	6	960	284TC	190/380	50	3	48/24
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	15	11.2	24.0	91.7	75.5
¾ Load	11.25	8.4	18.5	92.0	71.5
½ Load	7.50	5.6	14.3	91.2	62.6
¼ Load	3.75	2.8	9.7	83.6	52.2
No Load			9.1		5.7
Locked Rotor			130		47.1

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
82.1	185	175	230	4.68			

Safe Stall	Time(s)	Sound	Regrin	Bearings*		
Cold	Hot	Pressure	Dearin	iys	Approx. Motor Weight	
Colu	1100	dB(A) @ 1M	DE	NDE	(lbs)	
27	17	-	6310ZC3	6310ZC3	441	

*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	4/9/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019			



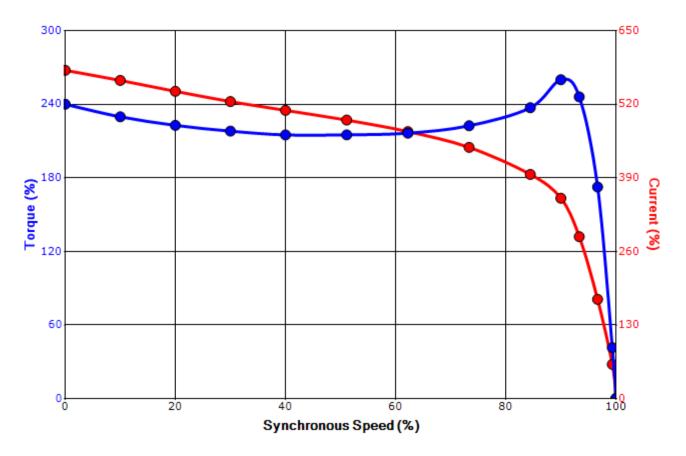
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 0156SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	6	1175	284TC	230/460	60	3	40/19.8
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
Looked Dates	Rotor wk²	_			Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull U	р	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	6)	(%)		(%	%)
116	4.68	67	240		215		2	60

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	10/3/2018	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019			



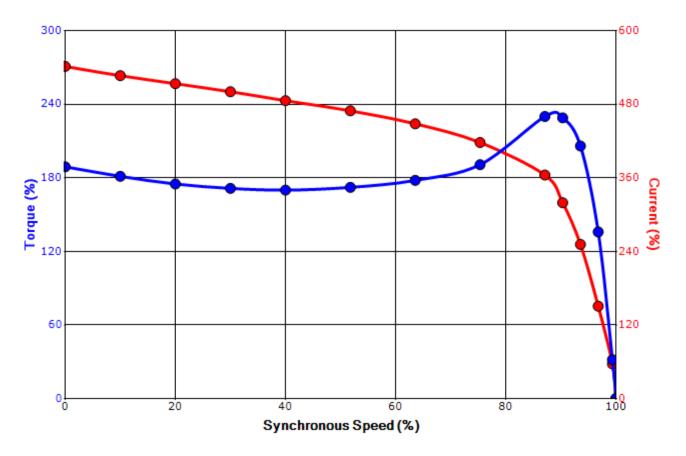
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 0156SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	6	960	284TC	190/380	50	3	48/24
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
Looked Dates	Rotor wk ²	Torque						
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull U	p	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	6)	(%)		(%	6)
130	4.68	82.1	185		175		23	30

Design Values





Customer	wk² Load Iner	ia (lb-ft²)
Customer PO	L	oad Type -
Sales Order	Vo	tage (%) 100
Project #	Ac	cel. Time -

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1			
Engr. Date	4/9/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019			

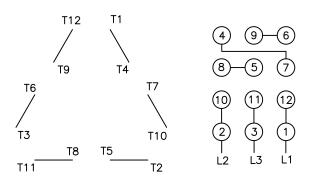
Motor Connection Diagrams 12 Leads

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