

- 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

0.188"x 0.188"x 1.38"

(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

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TOSHIBA INTERNATIONAL CORPORATION

TOTALLY ENCLOSED FAN COOLED
FOOTED C-FACED (NEMA BA)
3 PHASE INDUCTION MOTOR
143TC-145TC F1 ASSEMBLY

DRAWING #: MDSLV005-01

REV. DATE: 06/20/18 REV. #: 4 PER.: M. O'DOWD

REV. DESCRIP.:



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

TYPICAL MOTOR PERFORMANCE DATA

Model: 0014SDSR47A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1	0.75	4	1760	143TC	230/460	60	3	3.2/1.6
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	85.5	В	М	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	1	0.7	1.6	86.1	67.5
¾ Load	0.75	0.6	1.4	84.3	58.9
½ Load	0.50	0.4	1.2	79.5	46.4
¼ Load	0.25	0.2	1.1	66.5	29.9
No Load			1.1		7.9
Locked Rotor			13.8		65.7

Torque						
Full Load	Locked Rotor	Pull Up	Break Down	Inertia		
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)		
2.98	340	295	490	0.11		

Safe Stall	Time(s)	Sound Bearings* Approx. Motor		Rearings*		
Cold	Hot	Pressure dB(A) @ 1M	DE NDE		Approx. Motor Weight (lbs)	
35	15	-	6305ZZC3	6305ZZC3	64	

*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:

All characteristics are average expected values.

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	TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.									
Engineering	BMammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1					
Engr. Date	11/20/2019	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019					



Issued Date	12/18/2019	Transmit #	
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TYPICAL MOTOR PERFORMANCE DATA

Model: 0014SDSR47A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1	0.75	4	1450	143TC	190/380	50	3	3.6/1.8
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	84	В	N	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	1	0.7	1.8	86.1	68.5
¾ Load	0.75	0.6	1.5	85.3	60.4
½ Load	0.50	0.4	1.2	84.2	48.0
¼ Load	0.25	0.2	0.9	71.8	40.3
No Load			1.0		8.1
Locked Rotor			18		85.2

Torque						
Full Load	Locked Rotor	Pull Up	Break Down	Inertia		
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)		
3.62	275	235	320	0.11		

Safe Stall	Time(s)	Sound Bearings* Approx. Moto		Boarings*	
Cold	Hot	Pressure			
		dB(A) @ 1M	DE	NDE	(lbs)
26	21	-	6305ZZC3	6305ZZC3	64

*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:

All characteristics are average expected values.

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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	4/1/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019				



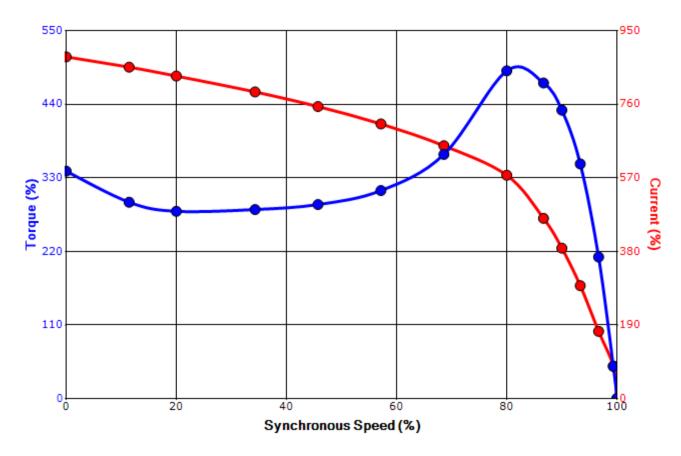
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 0014SDSR47A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1	0.75	4	1760	143TC	230/460	60	3	3.2/1.6
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	85.5	В	M	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)	(%)		(%	%)
13.8	0.11	2.98	340)	295		49	90

Design Values





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

All characteristics are av	All characteristics are average expected values.								
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Engineering	BMammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1				
Engr. Date	11/20/2019	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019				



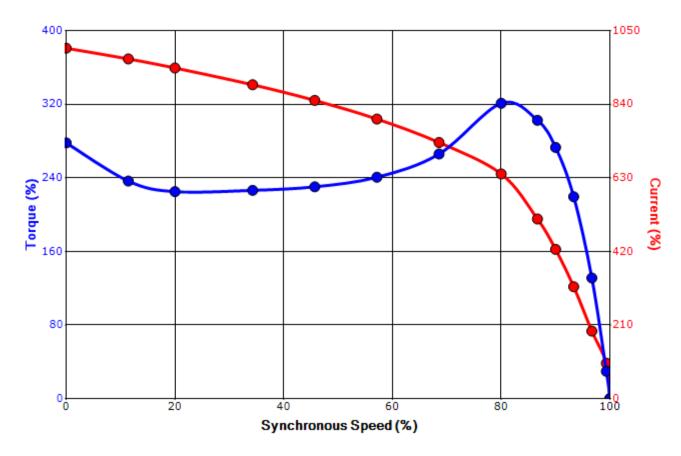
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SPEED TORQUE/CURRENT CURVE

Model: 0014SDSR47A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1	0.75	4	1450	143TC	190/380	50	3	3.6/1.8
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	84	В	N	40 C
Leeked Deter	Rotor wk ²				Torque			
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull U)	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	6)	(%)		(%	%)
18	0.11	3.62	275	5	235		32	20

Design Values





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

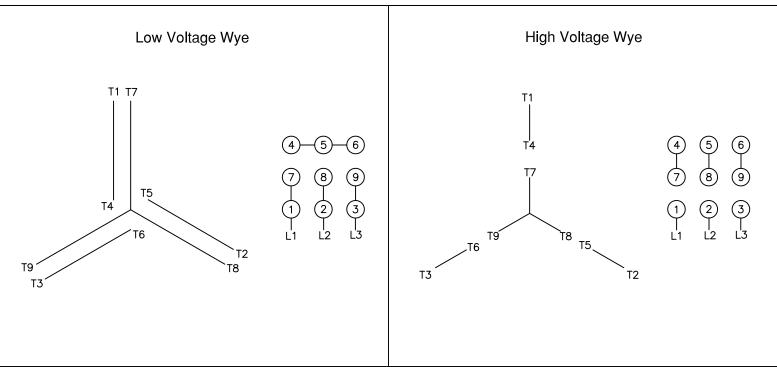
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Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1		
Engr. Date	4/1/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019		

Motor Connection Diagrams 9 Leads

Across-the-Line Starting / Running Connections



Switch L1 and L2 to reverse rotation

By: R. Murillo Date: 4/9/08 Checked: MDC Date: 5/17/11 Revision 0