

UNITS: INCHES ROTATION FROM NDE X CCW CW

- 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

0.312"x 0.312"x 2.38"

(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

X CERTIFIED



TOTALLY ENCLOSED FAN COOLED FOOTED C-FACED (NEMA BA) 3 PHASE INDUCTION MOTOR 213TC-215TC F1 ASSEMBLY

DRAWING #:	MDSLV005-03					
REV. DATE:	06/27/18	REV. #:	3	PER.: M. O'DOWD		
REV. DESCRIP.:						



Issued Date	6/19/2025	Transmit #	
Issued By	dschoeck	Issued Rev	

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

Model: 0102SDSR47A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
10	7.5	2	3510	215TC	230/460	60	3	23.6/11.8
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	90.2	В		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	10.00	7.5	11.8	90.2	88.2
¾ Load	7.50	5.6	9.0	91.1	87.2
½ Load	5.00	3.7	6.7	89.2	81.2
¼ Load	2.50	1.9	4.8	81.0	60.2
No Load			3.6		7.5
Locked Rotor			80		43.5

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
15.0	265	235	355	0.62			

Safe Stall	l Time(s) Sound		Bearin	Approx. Motor Weight		
Cold	Hot	Pressure			1	
	dB(A) @		DE	NDE	(lbs)	
35	15	-	6308ZZC3	6308ZZC3	196	

\*Bearings are the only recommended spare part(s).

Tag:

Motor Options: Product Family:EQP Global SD CFace Footed Mounting:C-Face Footed,Shaft:T Shaft

Customer	
Customer PO	
Sales Order	
Project #	

All characteristics are av	All characteristics are average expected values.							
TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	aacosta	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0			
Engr. Date	4/27/2012	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



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Issued By	dschoeck	Issued Rev	

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

Model: 0102SDSR47A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
10	7.5	2	2880	215TC	190/380	50	3	28.8/14.4
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		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	10.00	7.5	14.4	91.2	88.0
¾ Load	7.50	5.6	11.1	92.1	85.9
½ Load	5.00	3.7	7.9	91.9	80.0
¼ Load	2.50	1.9	5.2	80.1	67.4
No Load			3.2		22.0
Locked Rotor			100		39.8

Torque								
Full Load	Locked Rotor	Pull Up	Break Down	Inertia				
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)				
18.2	185	165	235	0.62				

Safe Stall Time(s)		Sound	Bearin	Approx. Motor Weight		
Cold	Hot	Pressure	Bearings*			
Cold Hot		dB(A) @ 1M	DE	NDE	(lbs)	
15	6	-	6308ZZC3 6308ZZC3		196	

\*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 / 0	
Engr. Date	4/9/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011	



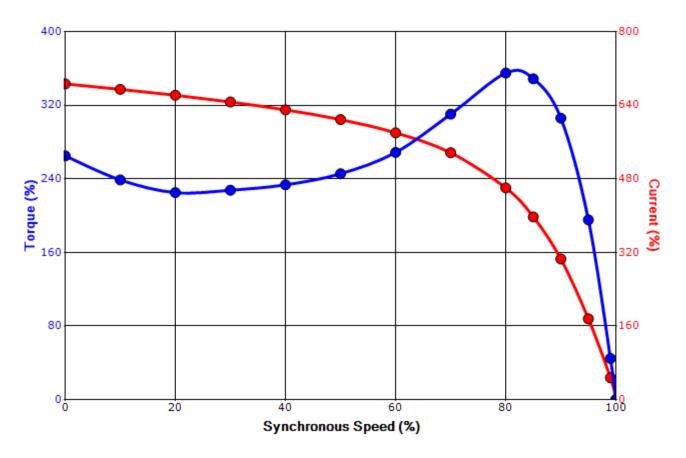
Issued Date	6/19/2025	Transmit #	
Issued By	dschoeck	Issued Rev	

### SPEED TORQUE/CURRENT CURVE

Model: 0102SDSR47A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
10	7.5	2	3510	215TC	230/460	60	3	23.6/11.8
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	90.2	В		40 C
Laskad Datas	Rotor wk <sup>2</sup>	Torque						
Locked Rotor Amps	Inertia	Full Load	Locked	Rotor	Pull Up	)	Break	Down
Amps	(lb-ft²)	(lb-ft)	(%	6)	(%)		(%	<b>%</b> )
80	0.62	15.0	26	55	235		35	55

## Design Values





Customer	wk² Load Inertia (Ib-f	2) -		
Customer PO	Load Typ	е -		
Sales Order	Voltage (%	6) 100		
Project #	Accel. Tim	е -		

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.							
Engineering	aacosta	Doc. Written By	D. Suarez	Doc.#/Rev	MPCF-1121 / 0		
Engr. Date	4/27/2012	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011		



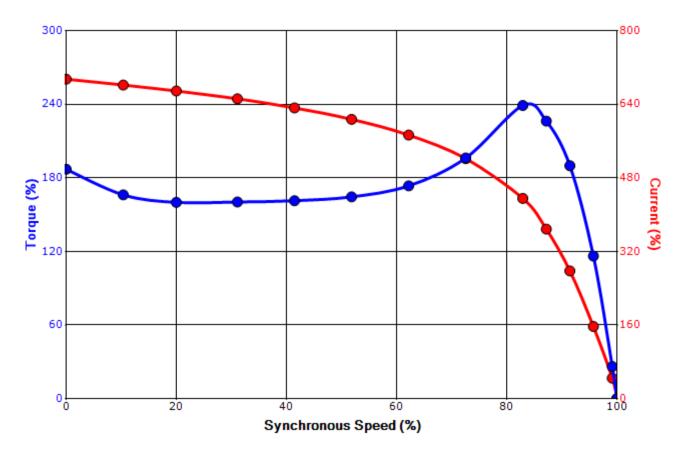
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### SPEED TORQUE/CURRENT CURVE

Model: 0102SDSR47A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
10	7.5	2	2880	215TC	190/380	50	3	28.8/14.4
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		40 C
Looked Deter	Rotor wk <sup>2</sup>	Torque						
Locked Rotor Amps	Inertia	Full Load	Locked	Rotor	Pull Up		Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	b)	(%)		(%	<b>6</b> )
100	0.62	18.2	18	5	165		23	35

## Design Values





Customer	wk² Load Inertia (Ib-f	2) -		
Customer PO	Load Typ	е -		
Sales Order	Voltage (%	6) 100		
Project #	Accel. Tim	е -		

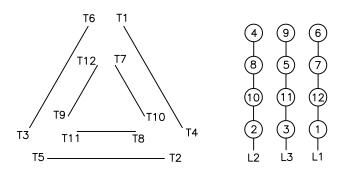
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TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.							
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0		
Engr. Date	4/9/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011		

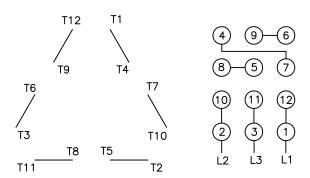
# Motor Connection Diagrams <a href="mailto:12">12 Leads</a>

#### 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



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#### **SPARE PARTS LIST\***

Model: 0102SDSR47A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
10	7.5	2	3510	215TC	230/460	60	3	23.6/11.8
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	90.2	В		40 C

 Bearings DE
 6308ZZC3 / 40BC03JPP3OX

 Bearings NDE
 6308ZZC3 / 40BC03JPP3OX

\*Bearings are the only recommended spare part(s).

Other than the grease used for regreasable bearings and the oil used for oil-lubricated bearings, Toshiba advises that there are no "use" parts. The only insurance spares that Toshiba suggests for these squirrel-cage induction motors are industry-standard and commercially available off-the-shelf bearings as noted above.

Motor components such as terminal boxes, fan covers and other machined parts are available on special request. In these cases, please advise our order entry department of the model and serial numbers found on the motor nameplate and a description of the needed components. With this information they will be able to furnish the current part number, price and availability.

Note: Our internal part numbers are subject to change without notice and are not published.

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-1125 / 0					
Engr. Date	4/27/2012	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011					