

#### 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

0.188"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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TOTALLY ENCLOSED FAN COOLED
FOOTED C-FACED
3 PHASE INDUCTION MOTOR
143TC-145TC F1 ASSEMBLY

DRAWING #: MDSLV003-01

REV. DATE: 06/20/18 REV. #: 5 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: Y152SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1.50	1.1	2	3490	143TC	230/460	60	3	4.0/2.0
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	84	В	L	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	1.50	1.1	2.0	84.3	83.2
¾ Load	1.13	0.8	1.5	83.5	78.6
½ Load	0.75	0.6	1.2	80.4	68.1
¼ Load	0.38	0.3	1.0	69.2	47.8
No Load			1.0		10.5
Locked Rotor			18		75.8

Torque						
Full Load	Locked Rotor	Pull Up	Break Down	Inertia		
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)		
2.26	265	225	360	0.05		

Safe Stall	Time(s)	Sound	Bearings* DE NDE		Approx. Motor Weight	
Cold	Hot	Pressure dB(A) @ 1M				
28	15	-	6305ZZC3	6305ZZC3	62	

\*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	mcampbell	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 1				
Engr. Date	2/27/2012	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: Y152SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1.50	1.1	2	2855	143TC	190/380	50	3	5.0/2.5
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	80	В	L	40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
	ПГ	KVV	Amperes	• • • • • • • • • • • • • • • • • • • •	` ′
Full Load	1.50	1.1	2.5	84.2	81.0
¾ Load	1.13	0.8	1.8	84.6	76.0
½ Load	0.75	0.6	1.4	82.8	65.8
¼ Load	0.38	0.3	1.1	69.9	54.5
No Load			0.8		12.3
Locked Rotor			22		95.2

Torque						
Full Load	Locked Rotor	Pull Up	Break Down	Inertia		
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)		
2.76	180	170	250	0.05		

Ì	Safe Stall	Time(s)	Sound	Bearings*		Approx. Motor Weight (lbs)	
	Cold	Hot	Pressure dB(A) @ 1M				
	32	8	-	6305ZZC3	6305ZZC3	62	

\*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	4/3/2014	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019			



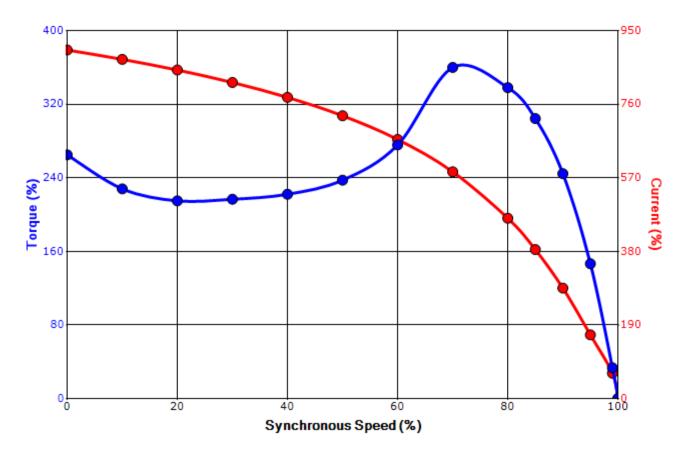
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

## SPEED TORQUE/CURRENT CURVE

Model: Y152SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1.50	1.1	2	3490	143TC	230/460	60	3	4.0/2.0
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	84	В	L	40 C
Laskad Datas	Rotor wk <sup>2</sup>	Torque						
Locked Rotor Amps	Inertia	Full Load	Locked	l Rotor	Pull U	)	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%)		(%)		(%	6)
18	0.05	2.26	265		225		30	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 mcampbell Doc. Written By D. Suarez Doc.# / Rev MPCF-11.								
Engr. Date	2/27/2012	Doc. Approved By	M. Campbell	Doc. Issued	9/20/2019			



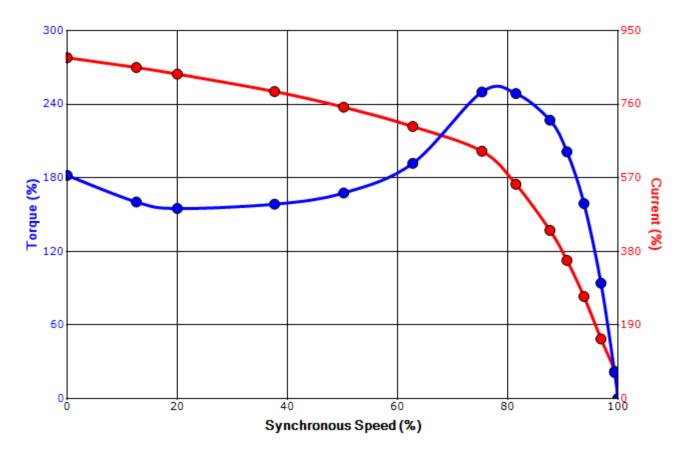
Issued Date	12/18/2019	Transmit #	
Issued By	dschoeck	Issued Rev	

## SPEED TORQUE/CURRENT CURVE

Model: Y152SDSR42A-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
1.50	1.1	2	2855	143TC	190/380	50	3	5.0/2.5
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	80	В	L	40 C
Looked Dates	Rotor wk²	Torque						
Locked Rotor Inertia		Full Load	Locked	l Rotor	Pull U	р	Break	Down
Allips	(lb-ft²)	(lb-ft)	(%	<b>%</b> )	(%)		(%	<b>%</b> )
22	0.05	2.76	180		170		2	50

# Design Values





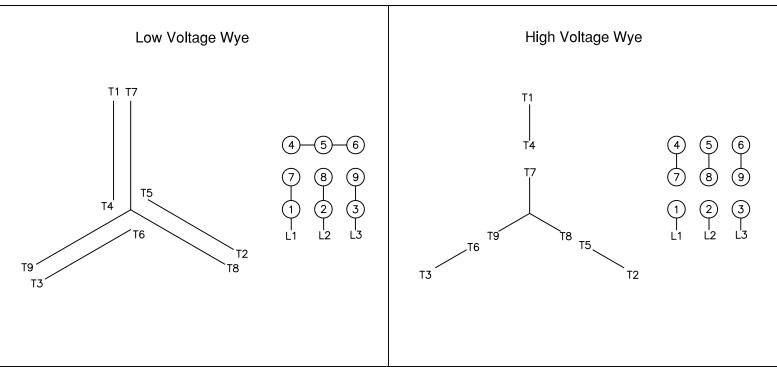
Customer	wk² Load Inertia (lb-f	2) -
Customer PO	Load Typ	е -
Sales Order	Voltage ( <sup>o</sup>	6) 100
Project #	Accel. Tin	

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121/1			
Engr. Date	4/3/2014	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