

UNITS: INCHES	
ROTATION FROM NDE	
<input checked="" type="checkbox"/> CCW	<input type="checkbox"/> 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 0.250"x 0.250"x 2.53"(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 CERTIFIED

TOSHIBA SEVERE DUTY
www.toshiba.com/tic **EQP Global SD**
TOSHIBA INTERNATIONAL CORPORATION

**TOTALLY ENCLOSED FAN COOLED
 HORIZONTAL FOOT MOUNTED
 3 PHASE INDUCTION MOTOR
 284JM/286JM F1 ASSEMBLY**

DRAWING #: MDSLVI08-05
REV. DATE: 10/10/22 **REV. #:** 4 **PER.:** M. O'DOWD
REV. DESCIP.: UPDATED TOLERANCES

TYPICAL MOTOR PERFORMANCE DATA

Model: 0156SDJR41M-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	6	1175	284JM	230/460	60	3	39.6/19.8
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	91.7	B		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	15.00	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		
Locked Rotor			116		42.6

Torque				Rotor wk ²
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	Inertia (lb-ft ²)
67.0	240	215	260	4.68

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
30	22	-	6310ZC3	6310ZC3	382

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

Motor Options:
Mounting:Footed,Shaft:JM Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.

Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	10/3/2018	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

TYPICAL MOTOR PERFORMANCE DATA

Model: 0156SDJR41M-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	6	960	284JM	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	B		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	15.00	11.2	24	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		
Locked Rotor			130		41.5

Torque				Rotor wk ²
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	Inertia (lb-ft ²)
82.1	185	175	230	4.68

Safe Stall Time(s)		Sound Pressure dB(A) @ 1M	Bearings*		Approx. Motor Weight (lbs)
Cold	Hot		DE	NDE	
27	17	-	6310ZC3	6310ZC3	382

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

Motor Options:
Mounting:Footed,Shaft:JM Shaft

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

All characteristics are average expected values.

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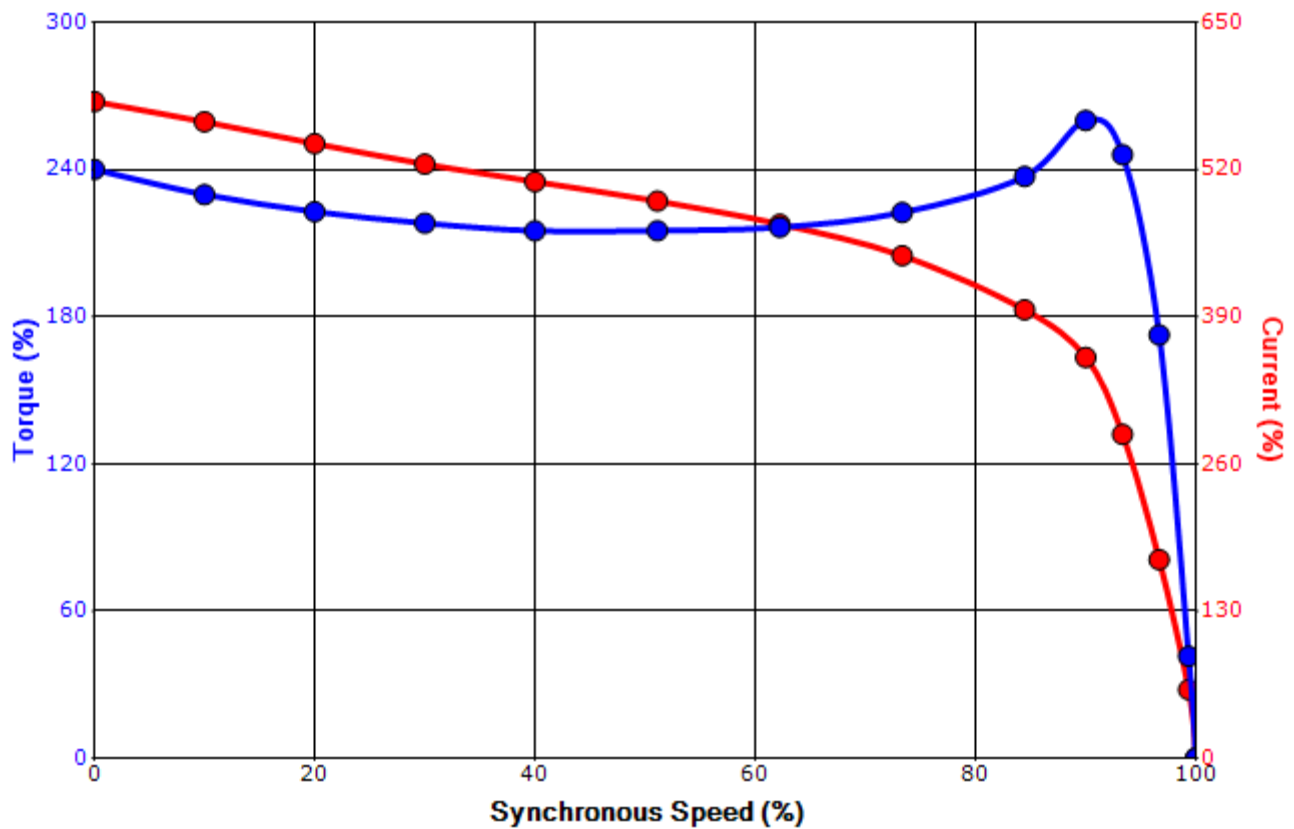
Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0
Engr. Date	4/9/2014	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

SPEED TORQUE/CURRENT CURVE

Model: 0156SDJR41M-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	6	1175	284JM	230/460	60	3	39.6/19.8
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.15	CONT	91.7	B		40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
116	4.68	67.0	240	215			260	

Design Values



Customer		wk ² Load Inertia (lb-ft ²)	-
Customer PO		Load Type	-
Sales Order		Voltage (%)	100
Project #		Accel. Time	-

Tag:

All characteristics are average expected values.

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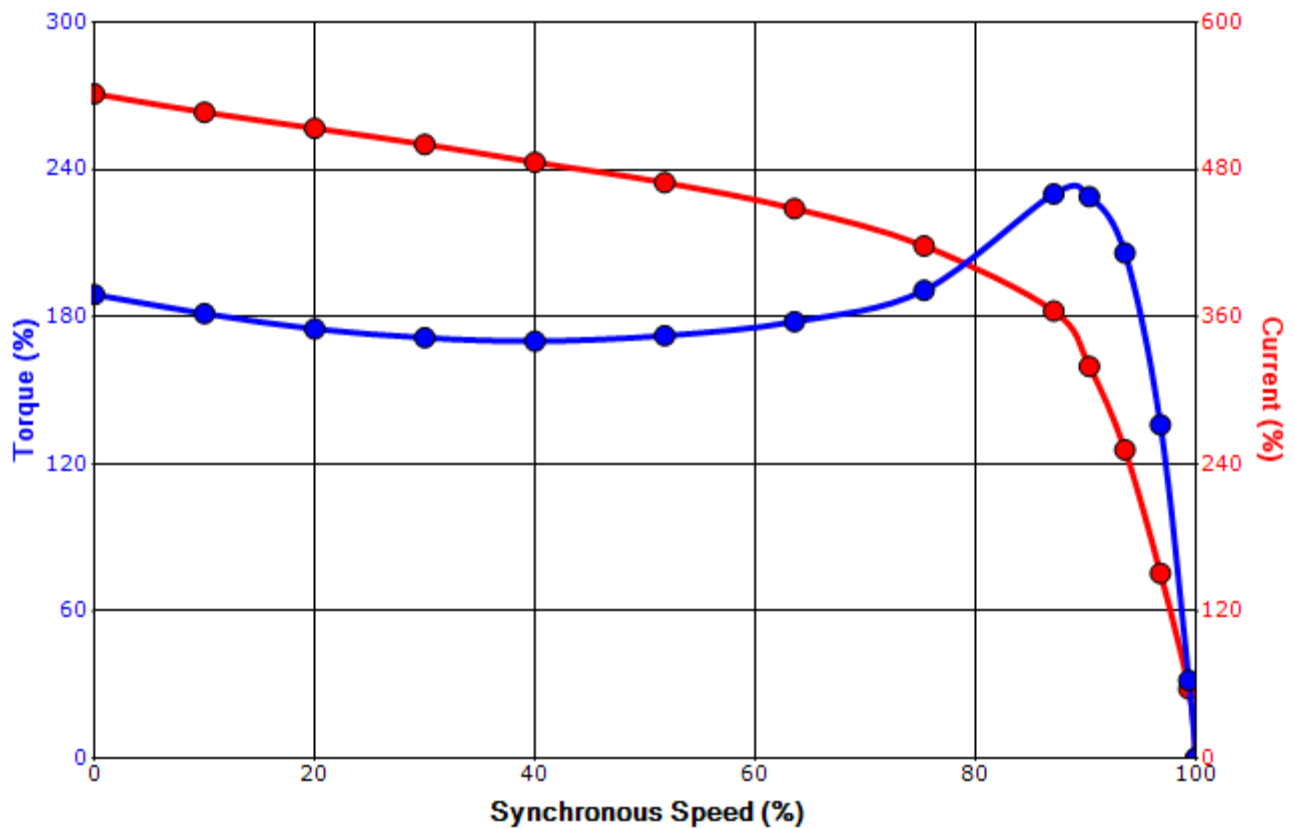
Engineering	bmammen	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
Engr. Date	10/3/2018	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011

SPEED TORQUE/CURRENT CURVE

Model: 0156SDJR41M-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
15	11	6	960	284JM	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	B		40 C
Locked Rotor Amps	Rotor wk ² Inertia (lb-ft ²)	Torque						Break Down (%)
		Full Load (lb-ft)	Locked Rotor (%)	Pull Up (%)				
130	4.68	82.1	185	175			230	

Design Values



Customer		wk ² Load Inertia (lb-ft ²)	-
Customer PO		Load Type	-
Sales Order		Voltage (%)	100
Project #		Accel. Time	-

Tag:

All characteristics are average expected values.

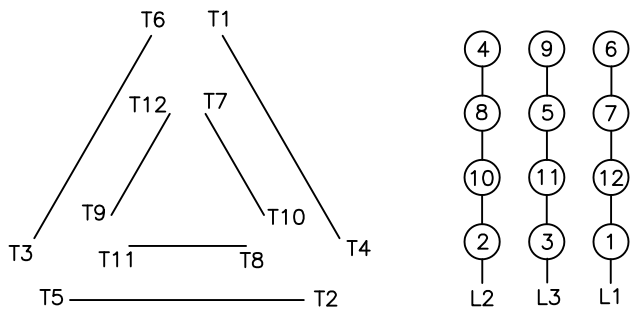
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Engineering	jhock	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1121 / 0
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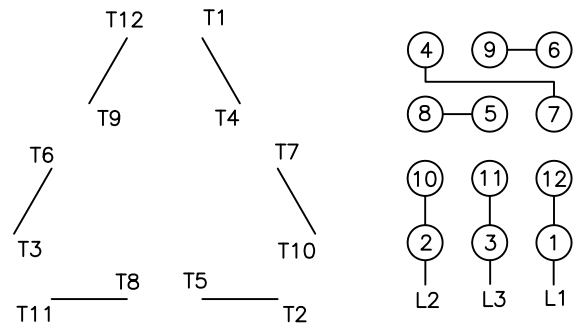
Motor Connection Diagrams
12 Leads

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.