



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

TYPICAL MOTOR PERFORMANCE DATA

Model: 3/42SDSR31H-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.75	0.55	2	3510	56	230/460	60	3	2.2/1.1
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.25	CONT	84.0	-		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	0.75	0.6	1.1	84.8	78.7
¾ Load	0.56	0.4	0.8	82.9	72.4
½ Load	0.37	0.3	0.7	77.7	61.3
¼ Load	0.19	0.1	0.6	63.3	43.0
No Load			0.5		10.9
Locked Rotor			7.4		54.7

Torque							
Full Load Locked Rotor		Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
1.12	220	170	275	0.04			

Safe Stall	Time(s)	Sound	Bearin	Approx. Motor Weight	
Cold	Cold Hot		Beal III		
Oolu	1100	dB(A) @ 1M	DE	NDE	(lbs)
35	15		6305ZZ	6305ZZ	48

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

Motor Options: Product Family:EQP Global SD Mounting:Footed,Shaft:56

Customer	
Customer PO	
Sales Order	
Project #	

Tag:

TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	SPinzon	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1119 / 0			
Engr. Date	6/23/2022	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



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TYPICAL MOTOR PERFORMANCE DATA

Model: 3/42SDSR31H-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.50	0.37	2	2925	56	190/380	50	3	1.8/0.9
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	81.5	-		40 C

Load	HP	kW	Amperes	Efficiency (%)	Power Factor (%)
Full Load	0.50	0.4	0.9	82.1	75.3
¾ Load	0.37	0.3	0.7	79.2	68.1
½ Load	0.25	0.2	0.6	72.6	57.1
¼ Load	0.12	0.1	0.6	56.4	40.5
No Load			0.5		11.9
Locked Rotor			6.6		58.9

Torque							
Full Load	Locked Rotor	Pull Up	Break Down	Inertia			
(lb-ft)	(% FLT)	(% FLT)	(% FLT)	(lb-ft²)			
0.90	265	200	300	0.04			

Safe Stall	Time(s)	me(s) Sound Bearings*		Approx. Motor Weight		
Cold	Cold Hot		Beal III		Approx. Motor Weight	
Oolu	1100	dB(A) @ 1M	DE	NDE	(lbs)	
35	15		6305ZZ	6305ZZ	48	

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

Motor Options: Product Family:EQP Global SD Mounting:Footed,Shaft:56

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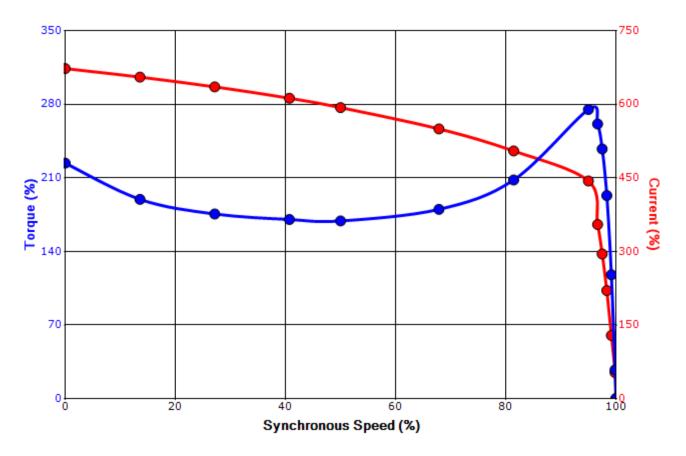
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SPEED TORQUE/CURRENT CURVE

Model: 3/42SDSR31H-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps	
0.75	0.55	2	3510	56	230/460	60	3	2.2/1.1	
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)	
TEFC	55	F	1.25	CONT	84.0	-		40 C	
Laskad Datas	Rotor wk ²		Torque						
Locked Rotor Amps	Inertia	Full Load	Locked	Rotor	Pull Up		Break Down		
Amps	(lb-ft²)	(lb-ft)	(%)		(%)		(%	6)	
7.4	0.04	1.12	220		170		275		

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	SPinzon	D. Suarez	Doc.#/Rev	MPCF-1121 / 0				
Engr. Date	6/23/2022	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011			



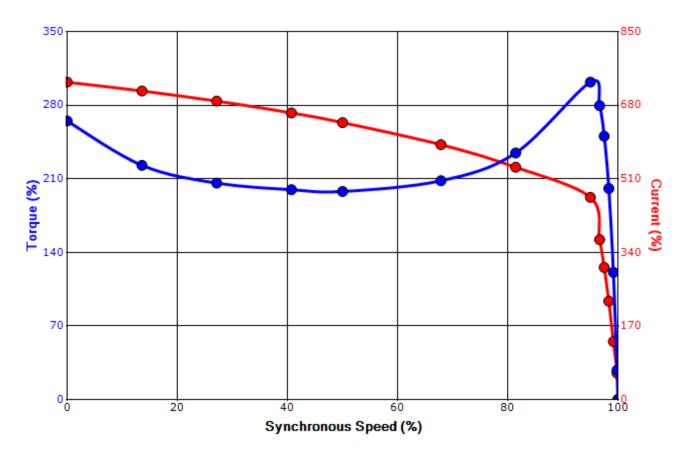
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Issued By	dschoeck	Issued Rev	

SPEED TORQUE/CURRENT CURVE

Model: 3/42SDSR31H-P

	_				_		_	
HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.50	0.37	2	2925	56	190/380	50	3	1.8/0.9
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.0	CONT	81.5	-		40 C
Laskad Datas	Rotor wk ²		Torque					
Locked Rotor Amps	Inertia	Full Load	Locked	Rotor	Pull Up		Break	Down
Allips	(lb-ft²)	(lb-ft)	(%)		(%)		(%	%)
6.6	0.04	0.90	26	265		200		00

Design Values





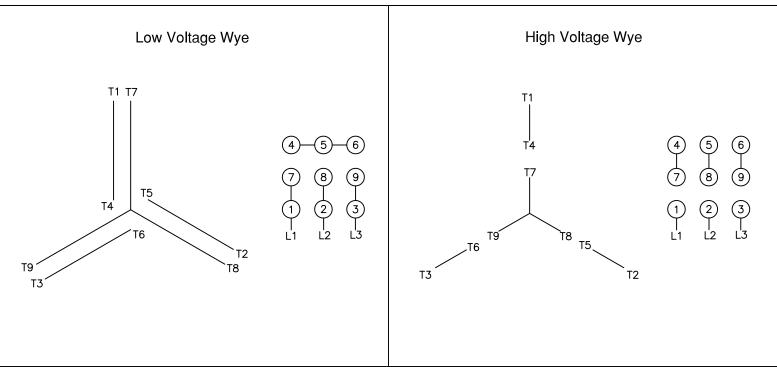
Customer	wk² Load Inertia (Ib-f	2) -
Customer PO	Load Typ	е -
Sales Order	Voltage (%	6) 100
Project #	Accel. Tim	е -

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TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.								
Engineering	SPinzon	D. Suarez	Doc.#/Rev	MPCF-1121 / 0				
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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



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SPARE PARTS LIST*

Model: 3/42SDSR31H-P

HP	kW	Pole	FL RPM	Frame	Voltage	Hz	Phase	FL Amps
0.75	0.55	2	3510	56	230/460	60	3	2.2/1.1
Enclosure	IP	Ins. Class	S.F.	Duty	NEMA Nom. Eff.	NEMA Design	kVA Code	Ambient (°C)
TEFC	55	F	1.25	CONT	84.0	-		40 C

 Bearings DE
 6305ZZ / 25BC03JPPOX

 Bearings NDE
 6305ZZ / 25BC03JPPOX

*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.

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TOSHIBA INTERNATIONAL CORPORATION · HOUSTON, TEXAS U.S.A.							
Engineering	SPinzon	Doc. Written By	D. Suarez	Doc.# / Rev	MPCF-1125 / 0		
Engr. Date	6/23/2022	Doc. Approved By	M. Campbell	Doc. Issued	6/8/2011		