

PRODUCT INFORMATION PACKET



Model No: LM34149
Catalog No: LM34149
40 HP Special Voltage Motor, 3 phase, 1800 RPM, 200/400 V, 324T Frame, ODP
200/400 Volts Motors



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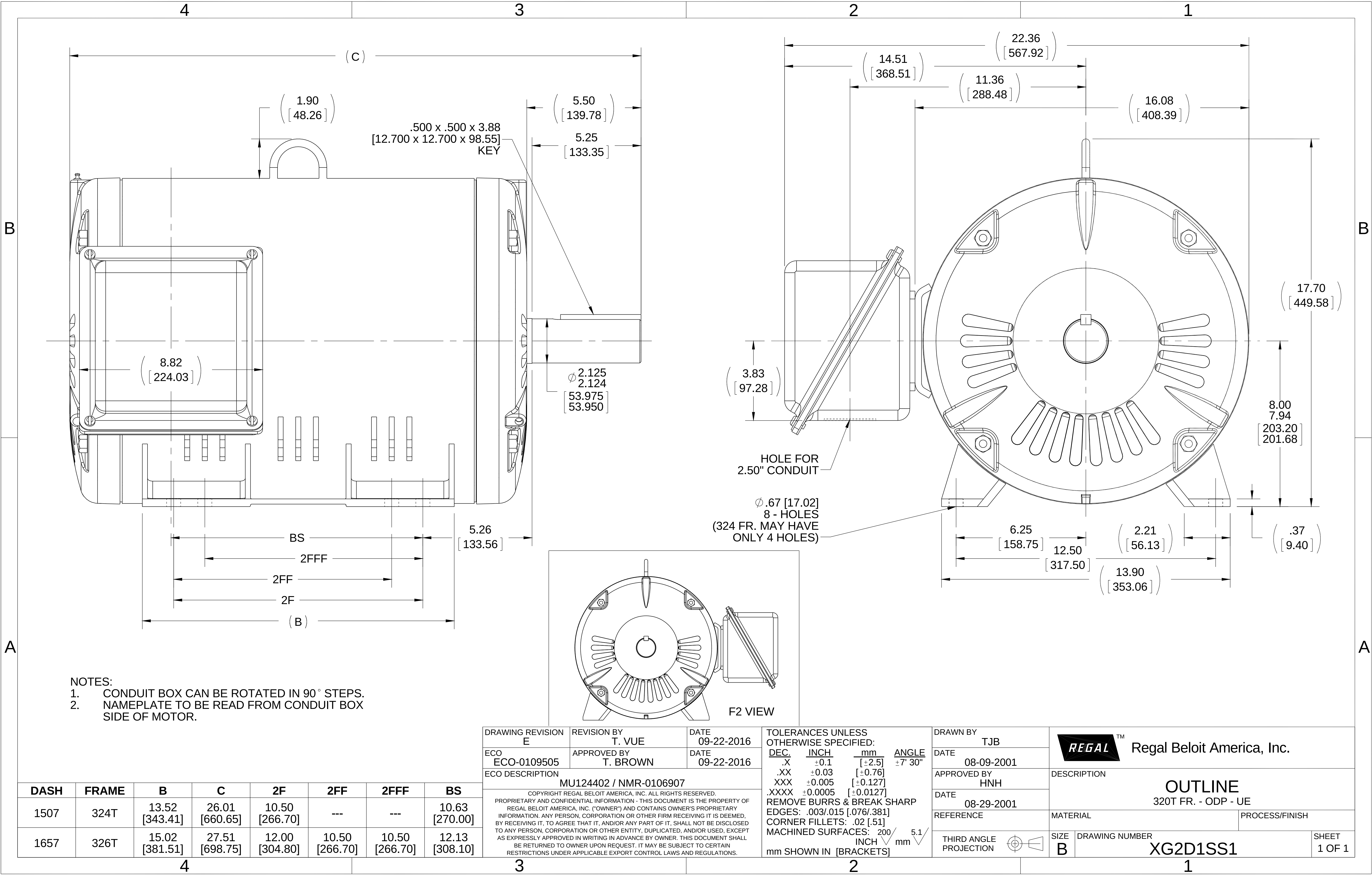
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	60 Hz	Voltage	200/400 V
Current	119.0/59.0 A	Speed	1782 rpm
Service Factor	1.15	Phase	3
Efficiency	94.1 %	Power Factor	77
Duty	Continuous	Insulation Class	F
Design Code	A	KVA Code	F
Frame	324T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6309
UL	Recognized	CSA	Y
CE	Y	IP Code	22

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.127 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	26.01 in
Frame Length	15.07 in	Shaft Diameter	2.125 in
Shaft Extension	5.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	XG2D1SS1-1507	Connection Drawing	A-EE7308AA-LN

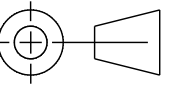
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DASH	FRAME	B	C	2F	2FF	2FFF	BS
1507	324T	13.52 [343.41]	26.01 [660.65]	10.50 [266.70]	---	---	10.63 [270.00]
1657	326T	15.02 [381.51]	27.51 [698.75]	12.00 [304.80]	10.50 [266.70]	10.50 [266.70]	12.13 [308.10]

DRAWING REVISION E	REVISION BY T. VUE	DATE 09-22-2016
ECO ECO-0109505	APPROVED BY T. BROWN	DATE 09-22-2016
ECO DESCRIPTION MU124402 / NMR-0106907		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7° 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP			
EDGES: .003/.015 [0.076/.381]			
CORNER FILLETS: .02 [.51]			
MACHINED SURFACES: 200 INCH 5.1 mm			
mm SHOWN IN [BRACKETS]			

DRAWN BY TJB	 Regal Beloit America, Inc.		
DATE 08-09-2001			
APPROVED BY HNH	DESCRIPTION OUTLINE		
DATE 08-29-2001	320T FR. - ODP - UE		
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION 	SIZE B	DRAWING NUMBER XG2D1SS1	SHEET 1 OF 1

T12 _____
 T1 _____
 T6 _____ L1
 T7 _____

T2 _____
 T4 _____ L2
 T8 _____
 T10 _____

T3 _____
 T5 _____ L3
 T9 _____
 T11 _____

LOW VOLTAGE

T12 _____ L1
 T1 _____

T4 _____
 T7 _____

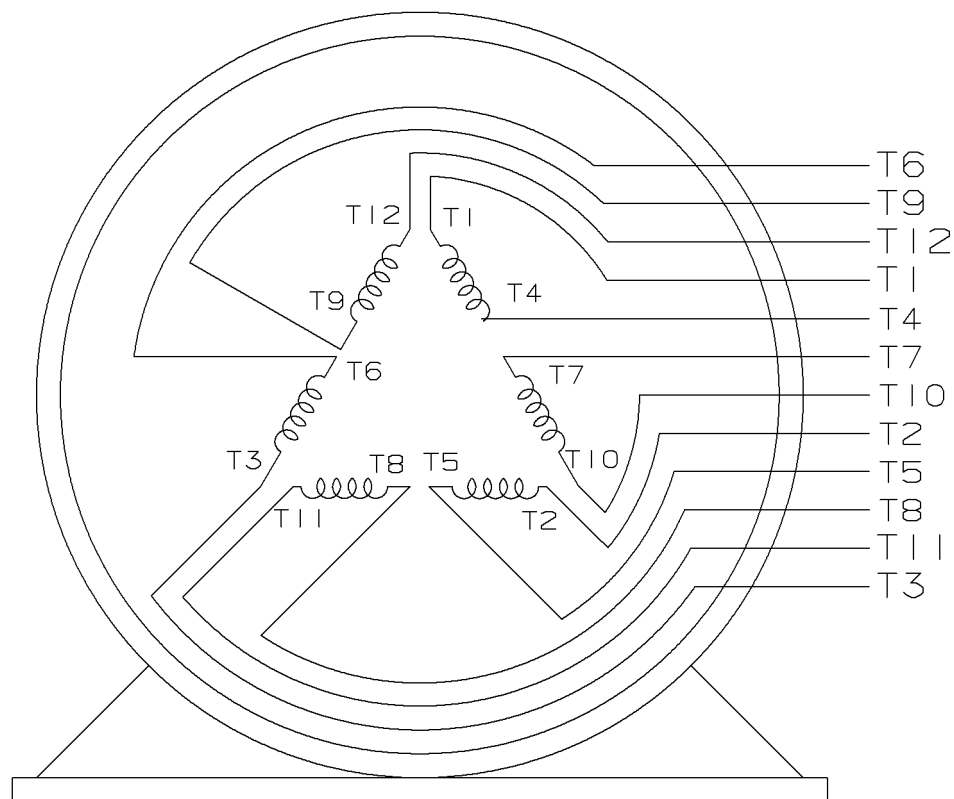
T2 _____ L2
 T10 _____

T5 _____
 T8 _____

T3 _____ L3
 T11 _____

T6 _____
 T9 _____

HIGH VOLTAGE



VIEW OF TERMINAL END

					✓ UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.02 XXX±.005 XXXX±.0005 ANGLES± 7°30"		
2	08-09-1999	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR		MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED		DRAWN BY TRB 07-16-1999
					FINISH		CHKD BY ML 06-18-1999
1	06-18-1999	NEW DRAWING	TRB		MATERIAL		APPD BY GK 06-18-1999
REV	DATE	CHANGE	NAME	PART NAME 3 PHASE CONNECTION DIAGRAM 2/1 DELTA - 12 LEADS			DRWG NO A- EE7308AA-LN
				PURCHASED	CADD FILE NO.	EE7308AALN	

ERROR: undefined
OFFENDING COMMAND: Pscrip
STACK:



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: NONE

CAT #: LM34149

OUTLINE: NONE

WINDING: L3244032

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
40	30	1800	1782	324T	DP	TDR	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	200/400	119/59	VVE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	94.1	3/4 LD EFF	94.1	1/2 LD EFF	93.6	GTD EFF	ELECT. TYPE
F.L. PF	77.0	3/4 LD PF	73.0	1/2 LD PF	46.0	93.0	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
118 LB-FT	299	220 LB-FT 186%	250 LB-FT 212%	30

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
75 dBA	84 dBA		0.00 LB-FT²	0 LB-FT²	0 SEC.	0	0 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTSaver

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
NONE NONE						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.07	0.043	0.434	0.702	9.382	0.150	ODE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

DATE: 9/6/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
UL: V-INS, CONST UL REC		

Data Sheet

Date: 9/6/2018

LM34149



Data @ 400 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	24.2	28.8	36.8	47.2	59.2	67.3	72.5	299	
Torque (ft-lb)	0.00	29.5	58.5	88.0	118	136	148	220	
RPM	1800	1795	1792	1788	1782	1,780	1778	0	
Efficiency (%)		88.5	93.6	94.1	94.1	94.1	93.6		
P.F. (%)	4.0	42.0	46.0	73.0	77.0	78.5	79.0	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																																																																															
Speed (RPM)	0	900	1725	1782	1800																																																																															
Current (Amps)	299	276	201	59.2	24.2																																																																															
Torque (ft-lb)	220	200	250	118	0.00																																																																															
— Efficiency (%) — P.F. (%) — Current (Amps) EFFICIENCY (%) P.F. (%) CURRENT (AMPS) <table><tr><td colspan="2">Information Block</td></tr><tr><td>HP</td><td>40.0</td></tr><tr><td>Sync. RPM</td><td>1800</td></tr><tr><td>Frame</td><td>324</td></tr><tr><td>Enclosure</td><td>DP</td></tr><tr><td>Construction</td><td>TDR</td></tr><tr><td>Voltage</td><td>200/400</td><td>V</td></tr><tr><td>Frequency</td><td>60</td><td>Hz</td></tr><tr><td>Design</td><td colspan="2">B</td></tr><tr><td>LR Code letter</td><td colspan="2">F</td></tr><tr><td>Service Factor</td><td colspan="2">1.15</td></tr><tr><td>Temp Rise @ FL</td><td>30</td><td>° C</td></tr><tr><td>Duty</td><td colspan="2">CONT</td></tr><tr><td>Ambient</td><td>40</td><td>° C</td></tr><tr><td>Elevation</td><td>1,000</td><td>feet</td></tr><tr><td>Rotor/Shaft wk²</td><td>0.00</td><td>Lb-Ft²</td></tr><tr><td>Ref Wdg</td><td>L3244032</td><td>NONE</td></tr><tr><td>Sound Pressure @ 1M</td><td>75</td><td>dBA</td></tr><tr><td>VFD Rating</td><td colspan="2">NONE</td></tr><tr><td>Outline Dwg</td><td colspan="2">NONE</td></tr><tr><td>Conn. Diag</td><td colspan="2">NONE</td></tr><tr><td colspan="3">Additional Specifications:</td></tr><tr><td colspan="3">0</td></tr><tr><td colspan="3">0</td></tr><tr><td colspan="3">EQUIV CKT (OHMS / PHASE)</td></tr><tr><td>R1</td><td>R2</td><td>X1</td><td>X2</td><td>Xm</td></tr><tr><td>0.0700</td><td>0.0430</td><td>0.4340</td><td>0.7020</td><td>9.3820</td></tr></table>						Information Block		HP	40.0	Sync. RPM	1800	Frame	324	Enclosure	DP	Construction	TDR	Voltage	200/400	V	Frequency	60	Hz	Design	B		LR Code letter	F		Service Factor	1.15		Temp Rise @ FL	30	° C	Duty	CONT		Ambient	40	° C	Elevation	1,000	feet	Rotor/Shaft wk ²	0.00	Lb-Ft ²	Ref Wdg	L3244032	NONE	Sound Pressure @ 1M	75	dBA	VFD Rating	NONE		Outline Dwg	NONE		Conn. Diag	NONE		Additional Specifications:			0			0			EQUIV CKT (OHMS / PHASE)			R1	R2	X1	X2	Xm	0.0700	0.0430	0.4340	0.7020	9.3820
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Speed - Torque Curve

