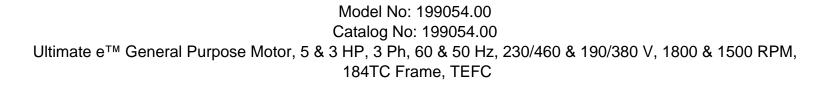
# **PRODUCT INFORMATION PACKET**





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Product Information Packet: Model No: 199054.00, Catalog No:199054.00 Ultimate e<sup>™</sup> General Purpose Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 184TC Frame, TEFC

# LEESON

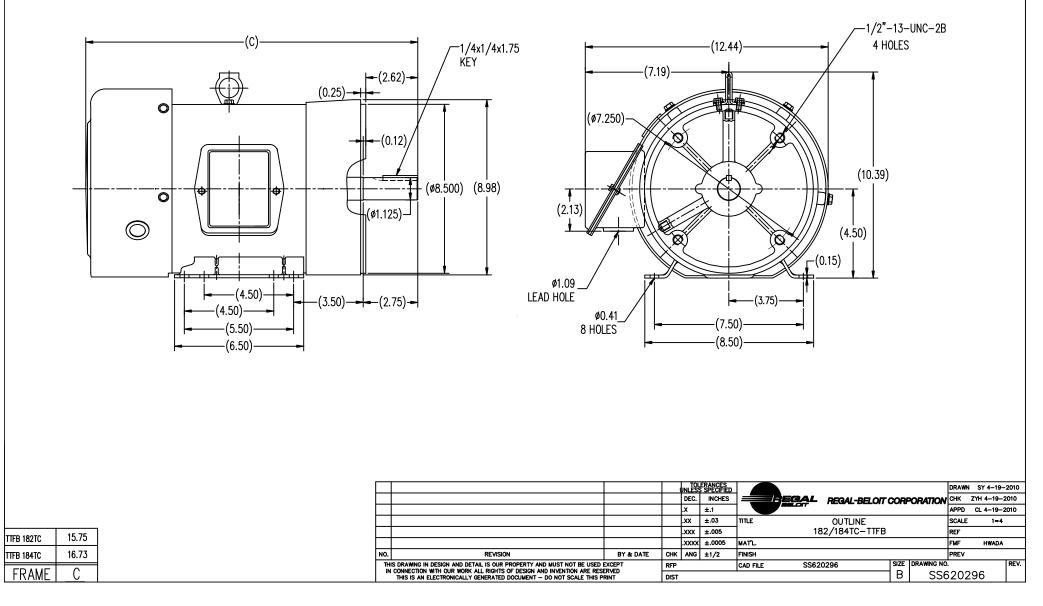
## Nameplate Specifications

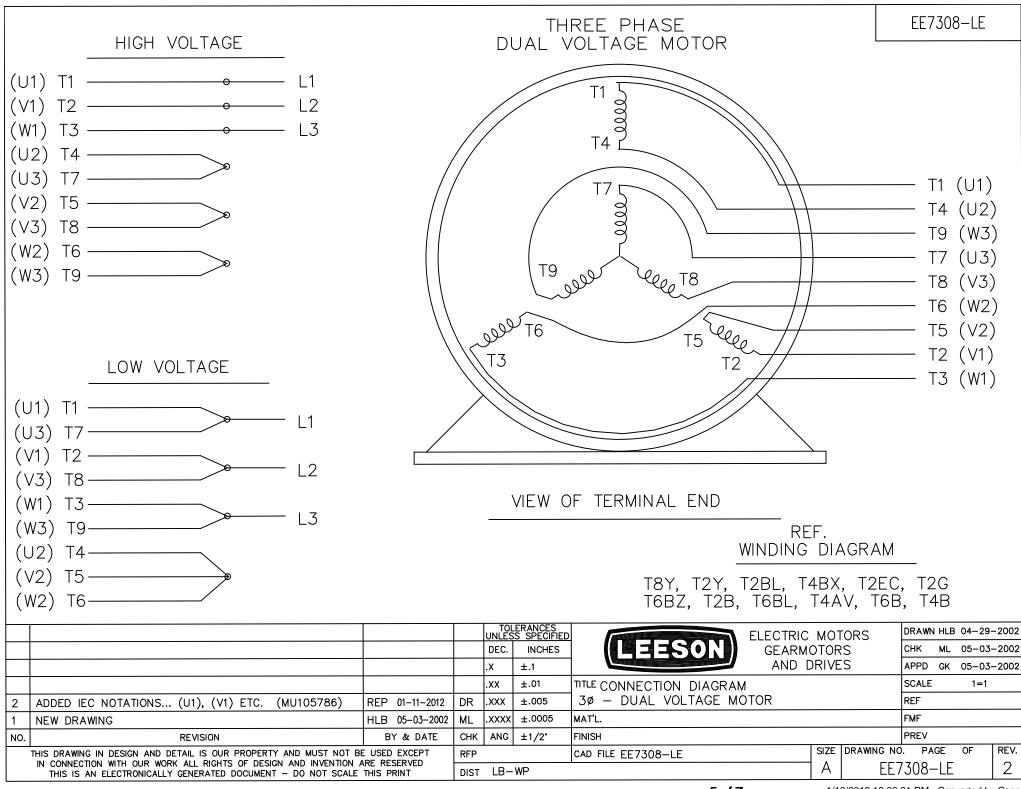
Phase	3	Output HP	5 & 3 Hp
Output KW	3.7 & 2.2 kW	Voltage	230/460 & 190/380 V
Speed	1758 & 1468 rpm	Service Factor	1.15 & 1.15
Frame	184TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	90.2 & 89.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	12.4/6.2 & 9.6/4.8 A	Power Factor	82.5
Duty	Continuous	Insulation Class	F
Design Code	А	KVA Code	J
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Ν	IP Code	43
Number of Speeds	1		

# **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	2.2 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	т	Overall Length	16.73 in
Frame Length	6.73 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	VARIABLE 10:1		
Connection Drawing	EE7308-LE	Outline Drawing	SS620296-184TC

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1051 CHEYENNE AVE. GRAFTON, WI 53024 PH. 262-377-8810

#### **CATALOG #:** 199054.00

#### CONN. DIAGRAM: EE7308-LE

MOUNTING: F1/F2 CAPABLE

#### **OUTLINE:** SS620296-184TC **WINDING #:** CHT18440007 1

#### TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5&3	3.70&2.24	1800	1758&1468	184TC	TEFC	J	А

РН	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	АМВ°С
3	60/50	230/460&190/380	12.4/6.2&9.6/4.8	LINE OR INVERTER	CONTINUOUS	F3	1.15/1.15	40

FULL LOAD EFF:	90.2&89.5	3/4 LOAD EFF:	89.5	1/2 LOAD EFF:	88.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	82.5&80	3/4 LOAD PF:	76	1/2 LOAD PF:	64.5	88.5	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
15.1 LB-FT	112 / 56	38 <b>LB-FT</b> 252	% 57.4 <b>LB-FT</b> 380 %	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 <b>dBA</b>	72 <b>dBA</b>	0.5 <b>LB-FT^2</b>	30 <b>lb-ft^2</b>	20 <b>SEC.</b>	2	110 LBS.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\*** 

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEAR		CREASE	SHAFT TYPE			SHAFT	FRAME
DE	ODE	GREASE	SHAFT ITPE	SPECIAL DE	SPECIAL ODE	MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	т	NONE	NONE		CAST IRON
6206	6205	POLIREX EM	I	NONE	NONE	AISI 1045 (C-240)	CAST IRON

	THERMO-PROTE	CTORS		THERMICTORS	CONTROL		
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	- THERMISTORS	CONTROL	SPACE P	IEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NONE	VOLTS
*				INVERTER TORQUE: INV. HP SPEED RANG		10:1	
N				ENCODER: NONE			
0				NONE NONE NONE	PPR		
т			Ī	BRAKE: NONE	NONE		
E				NONE P/N NO NONE NONE	NE		
S			l	NONE FT-LB NO	ONE V	NONE HZ	

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Date	: 1/19	/2018		Data S	neet			199054.00		
2410					SON					-
				Moto	r Load Data	®		Data	a @ 460	v
.oad	0%	25%	50%	75%	100%	115%	125%	LR		
Current (Amps)	2.80	3.2	4.0	5.0	6.2	6.9	7.7	56.0		
orque (ft-lb)	0.00	3.7	7.4	11.2	15.1	17.4	19.0	38.0		4
PM	1800	1790	1780	1755	1740	1,732	1725	0		-
fficiency (%) .F. (%)	5.5	86.5 42.5	88.5 64.5	89.5 76.0	89.5 85.0	89.5 85.5	88.5 85.5	53.0		-
		Motor Speed D								
	LR	Pull-Up	BD	Rated	Idle					
peed (RPM)	0	900	1450	1740	1800		-	nformation Block		
urrent (Amps)	56.0	50.5	36.0	6.2	2.80	HP		5.0		
orque (ft-lb)	38.0	34.2	57.4	15.1	0.00	Sync. RPM		1800		
						Frame		184		
	Efficiency (%)	— P.F. (%)	— 0	Current (Amps)		Enclosure		TEFC		
100.0					9.0	Construction		TFC		
						Voltage		230/460#190/380	V	
					8.0	Frequency		60	Hz	
90.0						Design		A		
				-/-	7.0	LR Code letter		К		
80.0						Service Factor		1.15		
80.0					6.0 A	Temp Rise @ I	FL	55	°C	
					0.0 A M	Duty		CONT	° C	
70.0					Р 5.0 с	Ambient Elevation		40 1,000	°C	
					5.0 S	Rotor/Shaft wk	2	0.50	feet Lb-Ft <sup>2</sup>	
						Ref Wdg		CHT18440007 NONE	LD-I (-	
60.0					4.0					
	$\sim$					Sound Pressur	e @1M	62	dBA	
50.0					3.0	VFD Rating		VARIABLE 10	):1	
50.0								0000		
					2.0	Outline Dwg Conn. Diag		SS62 EE730		
40.0						Additional Spec	cifications:	LL/30		
					1.0	0				
						0				
30.0	40%	60% 80%	/ 100%	120% 1	0.0	D1		V CKT (OHMS / PHASE)	×2	V.
30.0 0% 20%	6 40%	60% 80% LOAD	6 100%	120% 1	∔ 0.0 40%	<b>R1</b> 1.3040	EQUI <b>R2</b> 1.4740	V CKT (OHMS / PHASE) X1 3.8270	<b>X2</b> 4.0370	<b>X</b> I 106.8
	40%		6 100%			1.3040	R2	X1		
	6 40%				40%	1.3040	R2	X1		
0% 20%	6 40%			Speed -	40%	1.3040 urve	R2	X1	4.0370	
0% 20%	6 40%			Speed -	40%	1.3040 urve	R2	X1	60.0	
70.0	6 40%			Speed -	40%	1.3040 urve	R2	X1	4.0370	
70.0	6 40%			Speed -	40%	1.3040 urve	R2	X1	60.0	
70.0	6 40%			Speed -	40%	1.3040 urve	R2	X1	60.0	
0%  20%    70.0				Speed -	40%	1.3040 urve	R2	X1	60.0	
0% 20%	6 40%			Speed -	40%	1.3040 urve	R2	X1	60.0 50.0	106.
0% 20%	6 40%			Speed -	40%	1.3040 urve	R2	X1	60.0 50.0	A
0% 20%				Speed -	40%	1.3040 urve	R2	X1	60.0 50.0	106.
0% 20%				Speed -	40%	1.3040 urve	R2	X1	60.0 50.0 40.0	A M
0% 20%				Speed -	40%	1.3040 urve	R2	X1	4.0370 60.0 50.0 40.0	106. A M P
0% 20%				Speed -	40%	1.3040 urve	R2	X1	4.0370 60.0 50.0 40.0 30.0	106.8 A M P
0% 20%				Speed -	40%	1.3040 urve	R2	X1	4.0370 60.0 50.0 40.0	106.8 A M P
0% 20%				Speed -	40%	1.3040 urve	R2	X1	4.0370 60.0 50.0 40.0 30.0	106.8 A M P
0% 20%				Speed -	40%	1.3040 urve	R2	X1	4.0370 60.0 50.0 40.0 30.0 20.0	106. A M P
0% 20%				Speed -	40%	1.3040 urve	R2	X1	4.0370 60.0 50.0 40.0 30.0	106. A M P
0% 20%				Speed -	40%	1.3040 urve	R2	X1	4.0370 60.0 50.0 40.0 30.0 20.0	106. A M P
0% 20%				Speed -	40%	1.3040 urve	R2	X1	4.0370 60.0 50.0 40.0 30.0 20.0	106. A M P
0% 20%				Speed -	40%	1.3040 urve	R2	X1	4.0370 60.0 50.0 40.0 30.0 20.0	106. A M P
0% 20%				Speed -	40%	1.3040	R2 1.4740	X1	4.0370 60.0 50.0 40.0 30.0 20.0 10.0	106. A M P