PRODUCT INFORMATION PACKET





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Product Information Packet: Model No: 825087.00, Catalog No:825087.00 Explosion Proof Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1800 & 1500 RPM, 184T Frame, EPFC

LEESON

Nameplate Specifications

Phase	3	Output HP	5 & 3 Hp
Output KW	3.7 & 2.2 kW	Voltage	208-230/460 & 190/380 V
Speed	1755 & 1465 rpm	Service Factor	1.15 & 1.15
Frame	184T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	90.2 & 90.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	13.8-12.4/6.2 & 9.6/4.8 A	Power Factor	83.5
Duty	Continuous	Insulation Class	В
Design Code	В	KVA Code	J
Drive End Bearing Size	206	Opp Drive End Bearing Size	206
UL	UL Listed; also, UL Certified for Canada	CSA	Ν
CE	Ν	IP Code	54
Number of Speeds	1	Hazardous Location	EXP PROOF CL I GR C&D CL II GR F&G T3B

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	2.62 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	17.87 in
Frame Length	10.00 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1 Only
Inverter Load	CONSTANT 10:1		
Connection Drawing	A-EE7308T-LE	Outline Drawing	035660LE-1000

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04 ADDED COLORS TO "T & P" LEADS CN 40494 MSG 08-08-2006 ML X ±.1 AND DRIVES APPD TB 05-08-2 03 RE-ISSUE NJS 04-21-2004 JET XX ±.02 TITLE CONNECTION DIAGRAM SCALE 1=1 02 REDRAWN TAT 04-20-2004 ML XXX ±.005 3 PHASE - DUAL VOLTAGE MOTOR REF 1=1 01 NEW DRAWING CN 34708 TJB 05-08-2002 ML XXX ±.005 MAT'L. FMF 1=1 NO. REVISION BY & DATE CHK ANG ±7'30" FINISH PREV PREV PREV PREV PREV PREV PAGE OF PAGE OF REF FUSION SIZE IDRAWING NO, PAGE OF REF FUSION FINISH FUSION FINISH FINISH <th>05</th> <th>ADDED I NOTE LER ECH # 20921</th> <th>00 01 30 2013</th> <th>00</th> <th>DLC.</th> <th>INCILS</th> <th></th> <th>UTURS</th> <th></th> <th>5 00</th> <th>2002</th>	05	ADDED I NOTE LER ECH # 20921	00 01 30 2013	00	DLC.	INCILS		UTURS		5 00	2002
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1051 CHEYENNE AVE. GRAFTON, WI 53024 PH. 262-377-8810

CATALOG #: 825087.00

CONN. DIAGRAM: A-EE7308T-LE

MOUNTING: F1 ONLY

OUTLINE: 035660LE-1000 **WINDING #:** K1844215 1

TYPICAL MOTOR PERFORMANCE DATA

НР	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5&3	3.70&2.24	1800	1755&1465	184T	EPFC	J	В

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	АМВ°С
3	60/50	208-230/460&190/380	13.8-12.4/6.2&9.6/4.8	LINE OR INVERTER	CONTINUOUS	B3	1.15/1.15	40

FULL LOAD EFF:	90.2&90.2	3/4 LOAD EFF:	90.2	1/2 LOAD EFF:	90.2	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	83.5&79	3/4 LOAD PF:	78.5	1/2 LOAD PF:	70	89.5	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
15 LB-FT	92 / 46	34.5 LB-FT 230 %	45 LB-FT 300 %	50

SOUND P @ 3	RESSURE	SOUND	POWER	ROTO	DR WK^2	MA	X. WK^2	SAFE ST	FALL TIME	STARTS / HOUR	АРР МОТО	ROX . R WGT
62	dBA	72	dBA	0.5	LB-FT^2	50	LB-FT^2	25	SEC.	2	130	LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE ORIENTATION SEVERE DUTY		HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT	
STANDARD	STANDARD	RIGID	HORIZONTAL	TRUE	EXP PROOF CL I GR C&D CL II GR F&G T3B	FALSE	NONE	BLUE - LEESON (ENAMEL)

BEAR	INGS	CREASE				SHAFT	FRAME	
DE	ODE	GREASE	GREASE SHAFT TYPE POLYREX EM T		SPECIAL ODE	MATERIAL	MATERIAL	
BALL	BALL		т	NONE	NONE			
206	206	POLITEA EM		NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON	

	THERMO-PROTECT	ORS		TUEDMICTORC	CONTROL	CDACE I	
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	THERMISTORS	CONTROL	SPACE	IEATERS
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE	VOLTS
*			11 11	NVERTER TORQUE: NV. HP SPEED RANG	CONSTANT E: NONE	10:1	
Ν			E	NCODER: NONE			
ο			N N	ONE NONE ONE NONE	PPR		
т			В	RAKE: NONE	NONE		
F			N	ONE P/N NON	IE		
-				ONE FT-LB NO	NE V I	NONE HZ	

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					Data S	heet					
	Date:	1/22/	2018				a		825087.00		_
						XON					
							J		Data	@ 460	v
					Motor	r Load Data	•		Dulu	e 100	•
Load		0%	25%	50%	75%	100%	115%	125%	LR		
Current (Amp	s)	2.80	3.0	3.8	5.0	6.2	7.2	7.8	46.0		-
RPM		1800	1790	1780	1765	1755	1,745	1740	0		1
Efficiency (%))		85.5	90.2	90.2	90.2	89.5	88.5			
P.F. (%)		6.5	47.0	70.0	78.5	83.5	84.5	86.0	48.0		
			viotor Speed I	Data							
		LR	Pull-Up	BD	Rated	ldle					
Speed (RPM)		0	900	1600	1755	1800	110		nformation Block		
Torque (ft-lb)	S)	46.0 34.5	31.0	45.0	15.0	0.00	Sync. RPM		1800		
							Frame		184		
	E1	fficiency (%)	— P.F. (%)) <u> </u>	urrent (Amps)		Enclosure		TEFC		
100.0						9.0	Voltago		IFN 220/460#190/280	V	
							Frequency		60	Hz	
90.0						8.0	Design		В		
					$\boldsymbol{\Sigma}$	7.0	LR Code letter		J		
E				/7		7.0	Service Factor		1.15		
F 80.0 -						6.0 A	Temp Rise @	FL	50	°C	
						М	Duty Ambient		40	°C	
P 70.0 -						5.0 S	Elevation		1,000	feet	
F						J	Rotor/Shaft we	²	0.50	Lb-Ft ²	
60.0			/			4.0	Ref Wdg		K1844215 NONE		
							Sound Pressu	re @1M	62	dBA	
50.0		7				3.0	VFD Rating		CONSTANT 10):1	
5010						20	Outline Dwg		035660LI	E-1000	
						2.0	Conn. Diag		A-EE730	8T-LE	
40.0						1.0	Additional Spe	cifications:			
							0				
30.0 +	2001	40%		100%	1200/ 1	- 0.0		EQU	IV CKT (OHMS / PHASE)	¥0	V···
0%	20%	40%	LOAD	% 100%	120% 1	40%	1.5080	1.1280	3.6910	5.6930	104.3280
					Speed -1	Forque Cu	urve				
					•	•					
				— T	orque		-Amps				
50	0.0									50.0	
4	5.0									45.0	
										45.0	
40	0.0									40.0	
35	5.0									35.0	
T 3(30.0	
0										50.0	A
R 25	5.0									25.0	P
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1:	5.0									15.0	
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	0.0 +	200	400	600	800	1000	1200	1400	1600 1800	+ 0.0 2000	
				-							
					RI	PM					