PRODUCT INFORMATION PACKET

Model No: LM21190 Catalog No: LM21190 Speed Ratio Motor, 3 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 182T Frame, TEFC



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Product Information Packet: Model No: LM21190, Catalog No:LM21190 Speed Ratio Motor, 3 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 182T Frame, TEFC



Nameplate Specifications

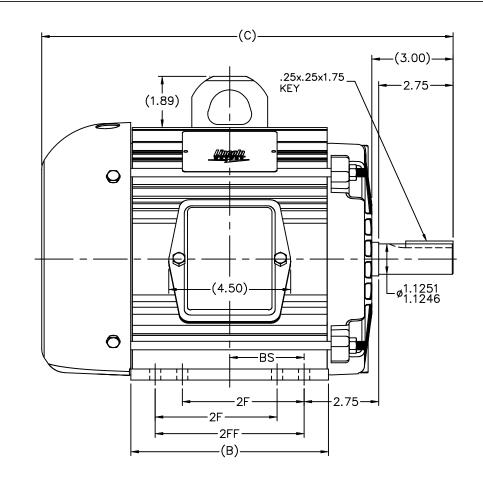
Output HP	3 Нр	Output KW	2.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	8.4/4.2 A	Speed	1760 rpm
Service Factor	1	Phase	3
Efficiency	87.5 %	Power Factor	76
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	к
Frame	182T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	207	Opp Drive End Bearing Size	205
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

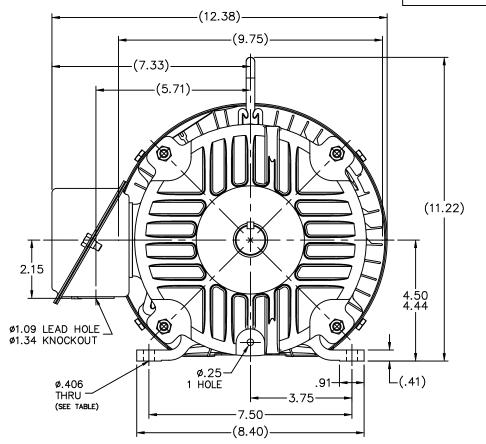
Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	4.65 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	т	Overall Length	14.19 in
Frame Length	6.20 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 4:1		
Outline Drawing	B-SS601006LN-620	Connection Drawing	A-EE7308T-LN

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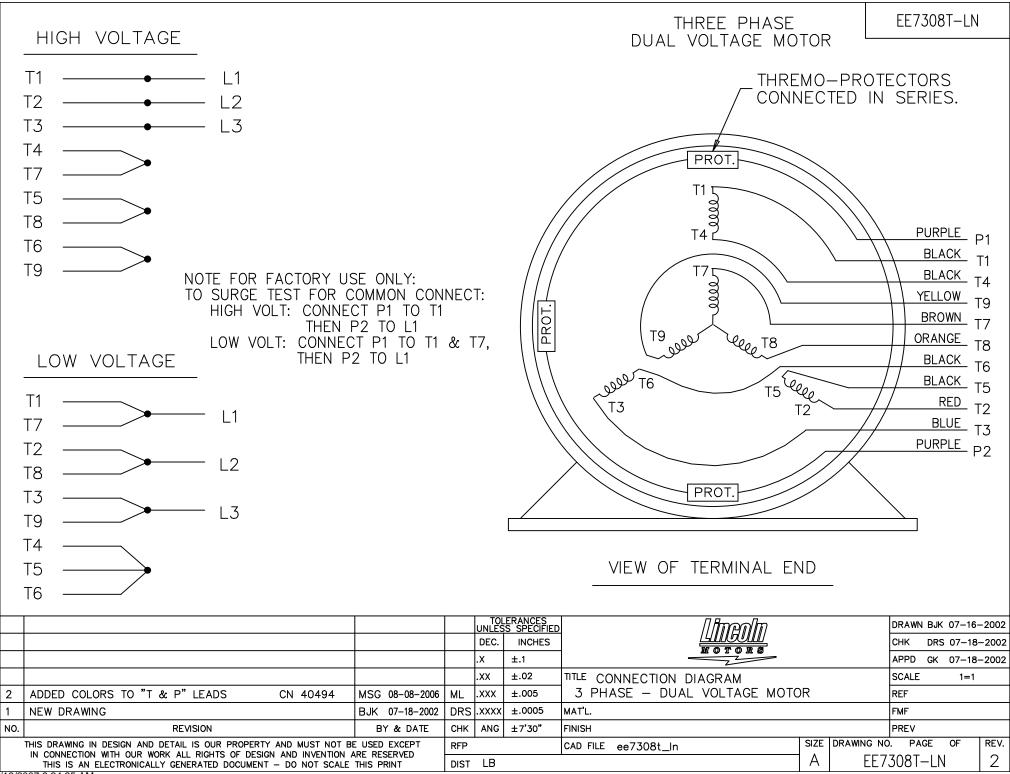
SS601006LN





NOTES: 1. CONDUIT BOX BE ROTATED IN 90° STEPS. 2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

							FOOT	12	REVISED 'B' DIMENSION IN DASH TABLE ECN 14167	MSG	8/19/2009	BW	L	ERANCES	//Ipoolp	DRAWN E	SLR 01-13-2000
DASH	FR.	С	BS	В	2FF	2F	FOOT HOLE	-					DEC.			СНК	ML 01-18-2000
							HULL	10	REVISED DASH TABLE INFORMATION CN 32829	DRS	09-10-2004	ML	.x	±.1	NOTORS	APPD	GK 01-18-2000
620	182T	14.19	2.25	6.30	4.50		4	9	REVISED -820, 2FF WAS 5.50 & 2F WAS BLANK	TAT	06-23-2004	ML	.xx	±.03	nite OUTLINE	SCALE	7=16
							-	8	RE-ISSUE CLARIFIED HOLES	TAT	01-30-2004	ML	.xxx	±.005	180T FR. – TEFC	REF	
720	182/4T	15.19	2.75	7.30	5.50	4.50	8	7	CHANGED 2F TO 2FF	TAT	01-27-2004	ML	.xxxx	±.0005	MATL	FMF	
720	184T	15.19	2.75	7.30	5.50		4	NO.	REVISION	E	Y & DATE	снк	ANG	±1/2"	FINISH	PREV	
					0.00				THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE			RFP			CAD FILE ss601006in SIZE DRAWING NO	. PAGE	OF REV.
820	184T	16.19	3.25	8.30		5.50	8		IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION A THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE		Served Rint	DIST	LB		B SS60	01006	5LN 12



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2100 WASHINGTON ST. GRAFTON, WI PH. 262-277-8810

CONN. DIAGRAM: A-EE7308T-LN

OUTLINE: B-SS601006LN-620

WINDING #: K1824117 R5 1

CATALOG # : LM21190

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA								
HP	kW	SYNC, RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN	
3	2.24	1800	1760	182T	TEFC	K	INV	

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	230/460	8.4/4.2	INVERTER ONLY	CONTINUOUS	F3	1.0	40

FULL LOAD EFF:	87.5	3/4 LOAD EFF:	87.5	1/2 LOAD EFF:	85	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	76	3/4 LOAD PF:	68	1/2 LOAD PF:	55	85.5	SQ CAGE INV DUTY

F.L. TORQUE	LOCKED ROTOR AMPS		L.R. TOR	QUE		B.D. TOR	F.L. RISE°C	
9 LB-FT	64 / 32	20	LB-FT	222 %	35	LB-FT	389 %	40

	PRESSURE 3 FT.	SOUND	POWER	ROTO	DR WK^2	МА	X. WK^2	SAFE ST	ALL TIME	STARTS / HOUR		ROX. R WGT
62	dBA	72	dBA	0.3	LB-FT^2	-	LB-FT^2	-	SEC.	-	70	LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY - LINCOLN

BEAR	INGS	CREASE	SHAFT TYPE	SPECIAL DE SPECIAL ODE		SHAFT	FRAME
DE	ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	MATERIAL	MATERIAL
BALL	BALL		- -	NONE	NONE		
207	205	POLYREX EM		NONE	NONE	1144 STRESSPROOF (C-223)	ALUMINUM

	THERMO-PROTECT	ORS		TUERMICTOR	CONTROL	CDACE	IFATERO
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	THERMISTORS	CONTROL	SPACE	HEATERS
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE	VOLTS

*	INVERTER TORQUE: CONSTANT 4:1 INV. HP SPEED RANGE: NONE
N	ENCODER: NONE
0	NONE NONE NONE PPR
т	BRAKE: NONE NONE
Ε	NONE P/N NONE NONE NONE
S	FT-LB V NONE HZ

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П	ate: 1/19	9/2018		Data S	neet			LM2119	0		
J	uto	LEESO									
				Moto	r Load Data	®		Da	ata @ 460	v	
.oad	0%	25%	50%	75%	100%	115%	125%	LR			
urrent (Amps)	2.50	2.70	3.1	3.6	4.2	4.7	5.1	32.0		-	
prque (ft-lb) PM	0.00	2.20 1790	4.4 1780	6.7 1770	9.0 1760	10.1 1,756	11.2 1750	20.0		-	
fficiency (%)	1000	77.5	85.0	87.5	87.5	87.0	86.5	ů			
P.F. (%)	6.5	34.0	55.0	68.0	76.0	78.0	80.0	52.0			
		Motor Speed D	ata								
	LR	Pull-Up	BD	Rated	Idle						
peed (RPM)	0	750	1485	1760	1800			Information Block			
urrent (Amps)	32.0	30.0	18.5	4.2	2.50	HP		3.0			
rque (ft-lb)	20.0	18.5	35.0	9.0	0.00	Sync. RPM		1800 182			
	Efficiency (%)	— P.F. (%)		Current (Amps)		Frame Enclosure		TEFC			
	2	(,,,)		arrent (/ anpo)	<u> </u>	Construction		TFL			
100.0					6.0	Voltage		230/460	V		
						Frequency		60	Hz		
90.0				1	5.0	Design		В			
						LR Code letter		К			
80.0						Service Factor		1.15			
80.0					4.0 A	Temp Rise @ I	=L	45	°C		
					M	Duty Ambient		CONT 40	°C		
p 70.0					P S	Elevation		1,000	feet		
					3.0	Rotor/Shaft wk	2	0.30	Lb-Ft ²		
60.0						Ref Wdg		K1824117 R5			
00.0						Sound Pressur	e @1M	62	dBA		
	/				2.0	VFD Rating		CONSTAN	T 4-1		
50.0											
						Outline Dwg			1006LN-620 7308T-LN		
40.0					1.0	Conn. Diag Additional Spec	cifications:	A-EE	(3081-LIN		
					_	0					
						0	FOU	IV CKT (OHMS / PHASE	=)		
30.0 +	20% 40%	60% 80%	100%	120% 1	+ 0.0 .40%	R1	R2	X1	-) X2	Xr	
		LOAD				2.7810	1.5800	5.2310	7.0570	98.38	
40.0 35.0 30.0 Z5.0 R Q Q U E 15.0 10.0					Forque Cl	Amps			35.0 30.0 25.0 20.0 15.0 10.0	A M P S	
5.0 0.0 0	200	400	600	800	1000	1200	1400	1600 1800	5.0 0.0 2000		



EC Declaration of Conformity

The undersigned representing the manufacturer:

Regal Beloit America 100 East Randolph St. Wausau, WI 54401 and the authorized representative established within the Community:

Marathon Electric UK 6F Thistleton Road Ind. Estate Market Overton Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : LM21190

(Model No. may contain prefix and/or suffix characters)

Catalog No : LM21190

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010) EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A Logsdon

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

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Authorized Representative in the Community:

Julian Clark Marketing Engineer