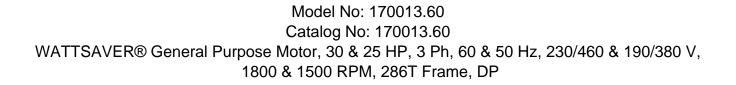
PRODUCT INFORMATION PACKET





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Product Information Packet: Model No: 170013.60, Catalog No:170013.60 WATTSAVER® General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 286T Frame, DP

LEESON

Nameplate Specifications

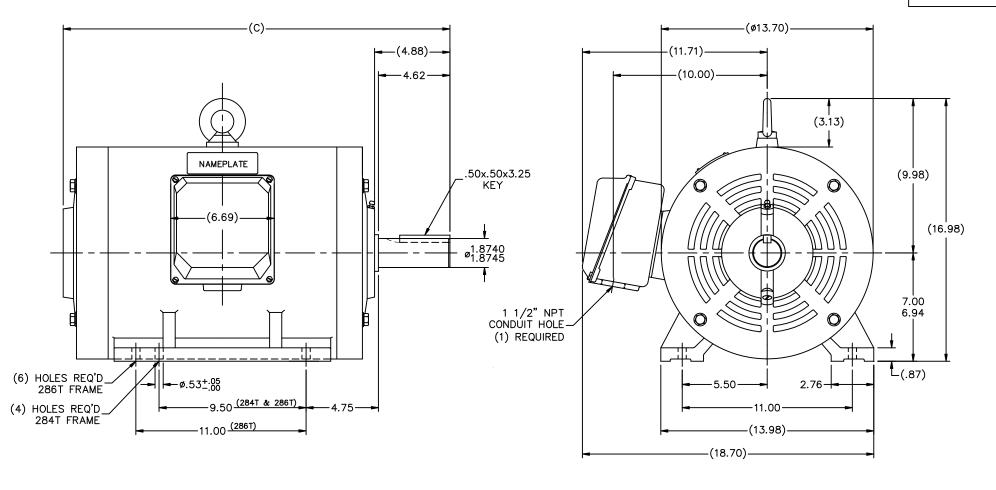
Phase	3	Output HP	30 & 25 Hp
Output KW	22.4 & 18.7 kW	Voltage	230/460 & 190/380 V
Speed	1780 & 1480 rpm	Service Factor	1.15 & 1.15
Frame	286T	Enclosure	Drip Proof
Thermal Protection	Thermostat	Efficiency	94.1 & 93.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	71/35.5 & 69.4/34.7 A	Power Factor	83.5
Duty	Continuous	Insulation Class	F
Design Code	Α	KVA Code	Н
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6211
UL	Recognized	CSA	Y
CE	Y	IP Code	23
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.233 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	25.00 in
Shaft Diameter	1.875 in	Shaft Extension	4.62 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2:1
Outline Drawing	169552_60LE	Connection Drawing	004172.01

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169552-60LE



(DRAWING MAY NOT BE TO SCALE)

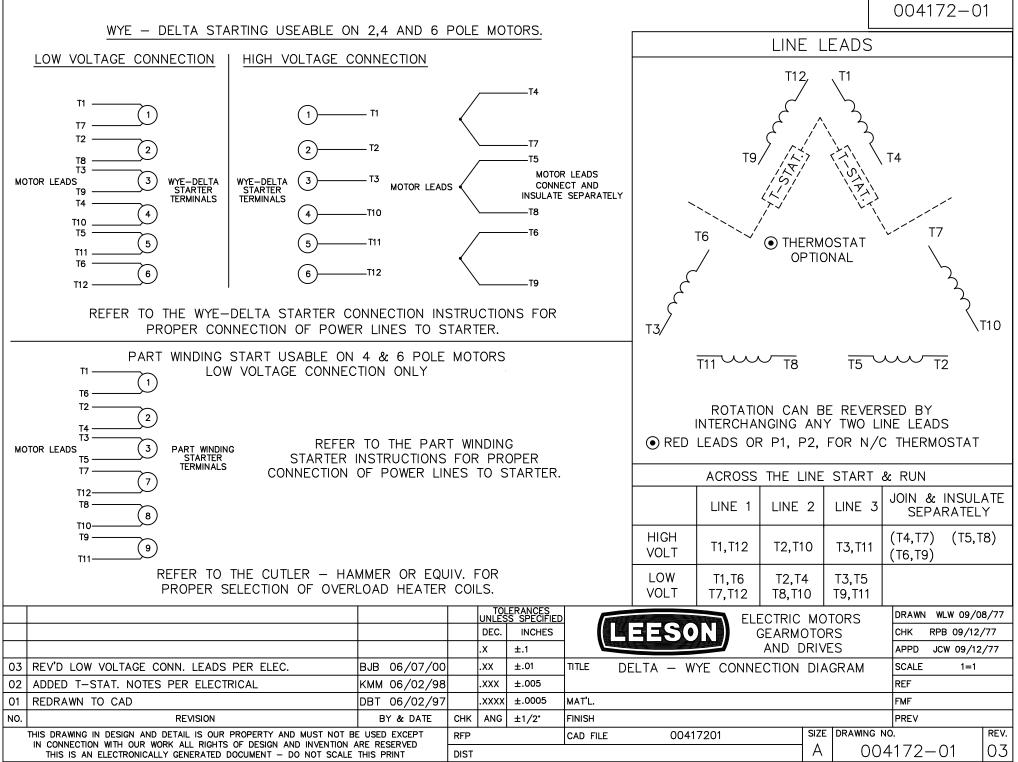
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[.x	±0	AND D	DRIVES	APPD	GK 12-	-08-2005
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					.xxx	±0	280T FR DRIP PROOF - RIGIE)	REF	1695	52-60
ſ					.xxxx	±0	MAT'L.		FMF		
	NO.	REVISION	BY & DATE	СНК	ANG	±0	FINISH		PREV		
Ī		THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION A		RFP	12-	09-2005	CAD FILE 169552_60le	SIZE DRAWING NO		GE OF	
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23.54 25.00

"C"

284T 286T FRAME

DESIGN



Uncontrolled Copy



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

CATALOG #: 170013.60

CONN. DIAGRAM: 004172.01

MOUNTING: F1/F2 CAPABLE

OUTLINE: 169552_60LE **WINDING #:** T14504018 3

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30&25	22.4&18.7	1800	1780&1480	286T	DP	Н	А

РН	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	71/35.5&69.4/34.7	Y START D RUN OR INV	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	94.1&93.6	3/4 LOAD EFF:	94.5	1/2 LOAD EFF:	94.1	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	83.5&87.1	3/4 LOAD PF:	80	1/2 LOAD PF:	71	93.6	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
88.5 LB-FT	524 / 262	161 LB-FT 182 %	225 LB-FT 255 %	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	- LB-FT^2	- LB-FT^2	15 SEC.	2	472 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	BLUE (ENAMEL)

BEAR	RINGS	CREASE			SPECIAL ODE	SHAFT	FRAME
DE	ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	MATERIAL	MATERIAL
BALL	BALL		F	NONE	NONE		
6312	6211	POLYREX EM	Ι	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

		THERMO-PROTECT	ORS		TUERMICTORS	CONTROL	CDACE I	
	THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	THERMISTORS	CONTROL	SPACE	IEATERS
	TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE	VOLTS
*					NVERTER TORQUE: NV. HP SPEED RANG		2:1	
Ν				E	NCODER: NONE			
0					NONE NONE	PPR		
т				Ē	BRAKE: NONE	NONE		
_				1	NONE P/N NOT	NE		
Е				1	NONE NONE			
s					NONE FT-LB NO	NE V r	NONE HZ	

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	ate: 1/22	/2018		Data S	neet			170013.60		
					SON					-
				Moto	Load Data	®		Data	@ 460	v
bad	0%	25%	50%	75%	100%	115%	125%	LR		
ırrent (Amps)	12.5	15.5	21.0	28.8	35.5	40.8	43.5	262		
rque (ft-lb)	0.00	22.0	44.3	66.3	88.5	102	0.00	161		
M	1800	1795 91.0	1790 94.1	1785 94.5	1780 94.1	1,778 93.6	1775 93.6	0		-
iciency (%) F. (%)	5.0	50.0	71.0	80.0	83.5	84.5	85.0	0.0		-
. ,		Motor Speed D	ata							_
	LR	Pull-Up	BD	Rated	Idle					
eed (RPM)	0	900	1700	1780	1800			Information Block		
rrent (Amps)	262	240	150	35.5	12.5	HP		30.0		
que (ft-lb)	161	145	225	88.5	0.00	Sync. RPM		1800		
						Frame		286		
-	Efficiency (%)	— P.F. (%)	— (Current (Amps)		Enclosure		DP		
100.0					50.0	Construction		TDC	M	
						Voltage		230/460#190/380	V	
00.0					45.0	Frequency		60	Hz	
90.0						Design		A		
					40.0	LR Code letter		H		
80.0			-/		35.0	Service Factor Temp Rise @ I	=1	1.15 45	°C	
					A	Duty	-	45 CONT	U	
		/ /			30.0 M	Ambient		40	°C	
70.0					50.0 Р S	Elevation		1,000	feet	
					25.0	Rotor/Shaft wk	2	0.00	Lb-Ft ²	
60.0		/				Ref Wdg		T14504018 NONE		
					20.0	Sound Pressur	e @1M	75	dBA	
50.0	\mathcal{I}				15.0	VFD Rating		CONSTANT 2	:1	
						Outline Dwg		169552_	601 E	
					10.0	Conn. Diag		00417		
40.0						Additional Spec	cifications:	•		
					5.0	0				
30.0					0.0	0	EQU	IV CKT (OHMS / PHASE)		
		60% 80%	5 100%	120% 1	40%	R1	R2	X1		X
0%	20% 40%								X2	
U%	20% 40%	LOAD				0.0000	0.0000	0.0000	0.0000	0.0
250.0	20% 40%		1	Speed -	lorque C	0.0000				0.0
	20% 40%		1		Forque C	0.0000 urve			0.0000	0.0
	20% 40%				Forque C	0.0000 urve			0.0000	0.0
250.0	20% 40%		1		Forque C	0.0000 urve			0.0000	0.0
	20% 40%		1		Forque C	0.0000 urve			300.0	0.0
250.0	20% 40%		1		Forque C	0.0000 urve			300.0	0.0
250.0	20% 40%				Forque C	0.0000 urve			300.0	0.0
250.0	20% 40%				Forque C	0.0000 urve			300.0	0.0
250.0 200.0 T 150.0	20% 40%				Forque C	0.0000 urve			300.0)))
250.0	20% 40%				Forque C	0.0000 urve			300.0 250.0 200.0	0.0)) A M
250.0 200.0 T 150.0 O R Q	20% 40%				Forque C	0.0000 urve			300.0	0.0 0 0 0 0 0 0 0 0
250.0 200.0 T 150.0 R Q U	20% 40%				Torque C	0.0000 urve			300.0 250.0 200.0	0.0)) A M
250.0 200.0 T 150.0 O R Q	20% 40%				Forque C	0.0000 urve			300.0 250.0 200.0 150.0	0.0 0 0 0 0 0 0 0 0 0 0 0
250.0 200.0 T 150.0 R Q U	20% 40%				Torque C	0.0000 urve			300.0 250.0 200.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0
250.0 200.0 T 150.0 R Q U	20% 40%				Forque C	0.0000 urve			300.0 250.0 200.0 150.0	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0
250.0 200.0 T 150.0 O R Q U E 100.0	20% 40%				Forque C	0.0000 urve			300.0 250.0 200.0 150.0	0.0) A M) P S
250.0 200.0 T 150.0 R Q U	20% 40%				Forque C	0.0000 urve			300.0 250.0 200.0 150.0	0.0) A M) P S
250.0 200.0 T 150.0 R Q U E 100.0	20% 40%				Forque C	0.0000 urve			0.0000 300.0 250.0 200.0 150.0 100.0	0.0) A M) P S
250.0 200.0 T 150.0 R Q U E 100.0	20% 40%				Forque C	0.0000 urve			0.0000 300.0 250.0 200.0 150.0 100.0	0.0) A M) P S
250.0 200.0 T 150.0 R Q U E 100.0 50.0	20% 40%				Forque C	0.0000 urve			0.0000 300.0 250.0 200.0 150.0 50.0	0.0) A M) P S
250.0 200.0 T 150.0 R Q U E 100.0	20% 40%				Torque C	0.0000			0.0000 300.0 250.0 200.0 150.0 100.0)) A M) P S



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 : 170013.60

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

Catalog No : 170013.60

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 10/11/2022

(€ 22

Authorized Representative in the Community:

Julian Clark Marketing Engineer