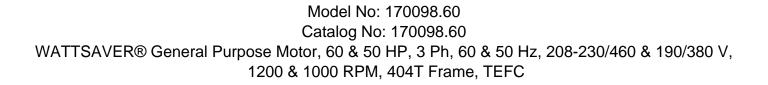
PRODUCT INFORMATION PACKET





Regal and Leeson are trademarks of Regal Rexnord Corporation or one of its affiliated companies. \hat{A} ©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E





Product Information Packet: Model No: 170098.60, Catalog No:170098.60 WATTSAVER® General Purpose Motor, 60 & 50 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1200 & 1000 RPM, 404T Frame, TEFC

LEESON

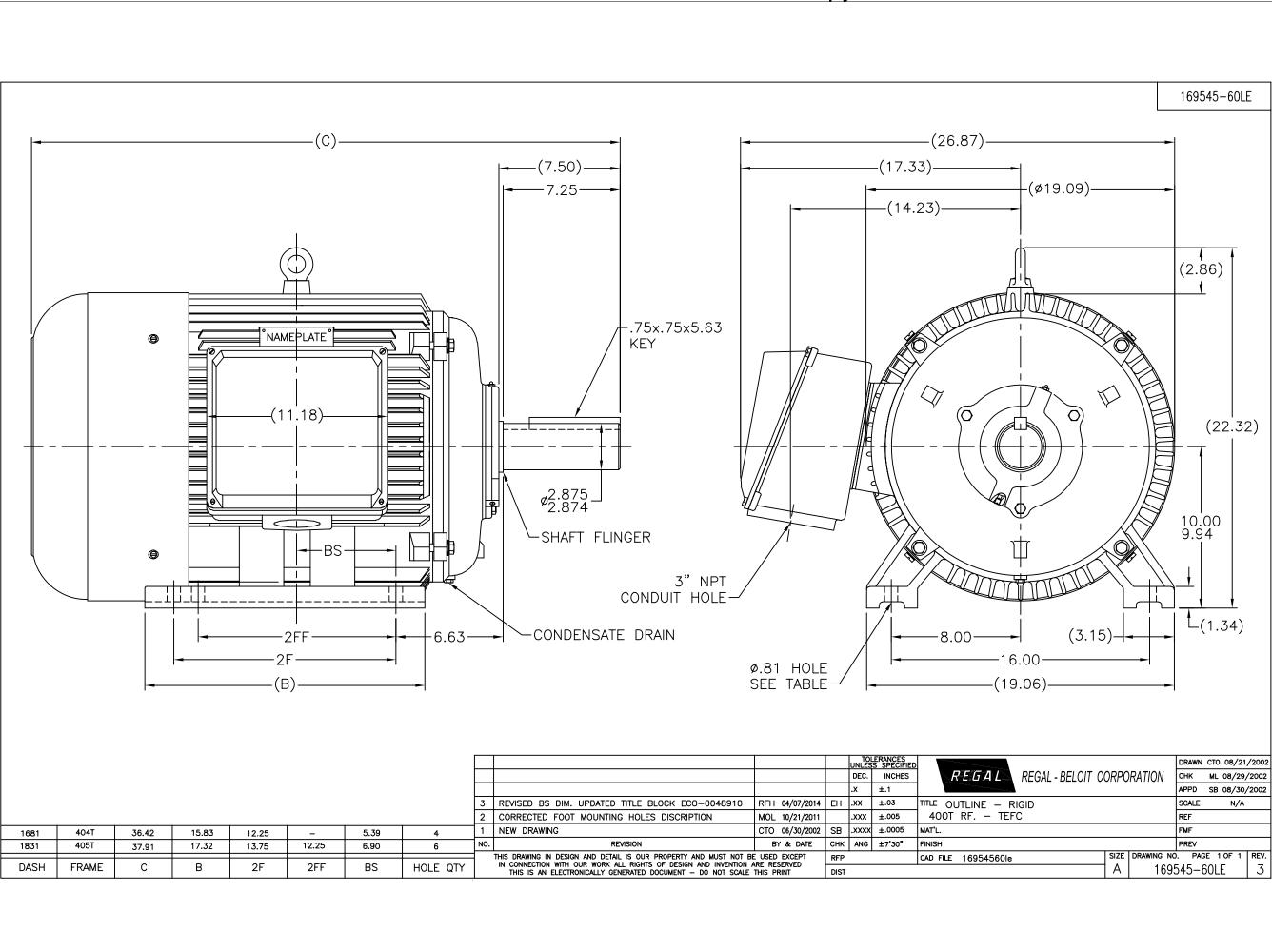
Nameplate Specifications

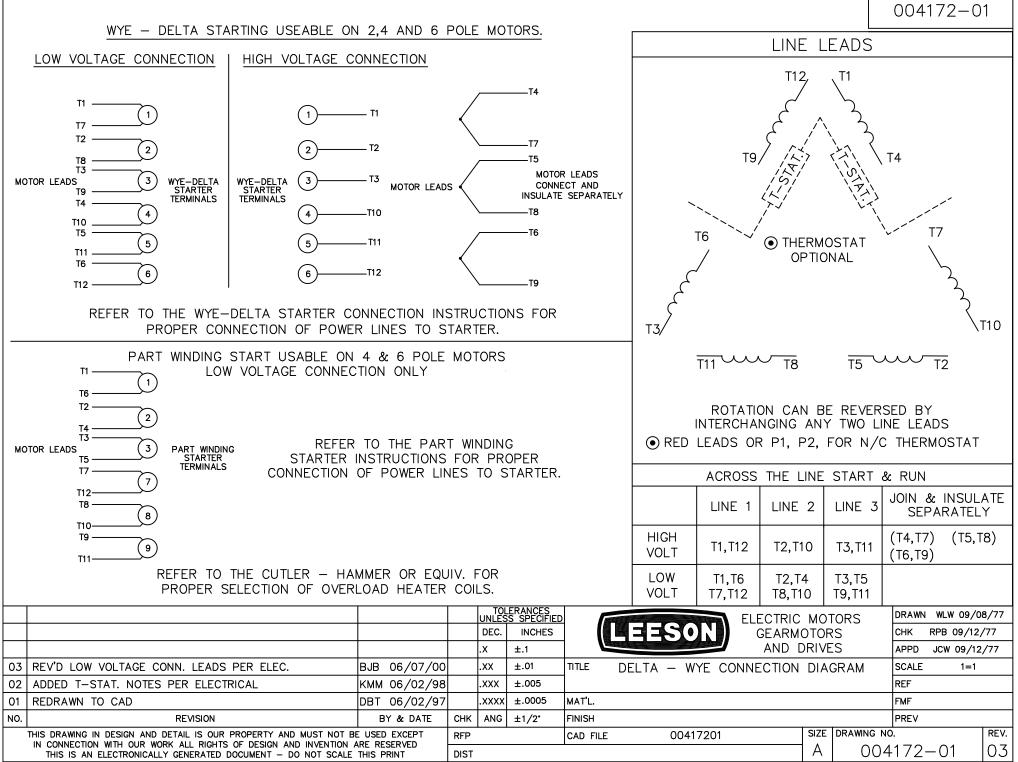
3	Output HP	60 & 50 Hp
45.0 & 37.0 kW	Voltage	208-230/460 & 190/380 V
1190 & 990 rpm	Service Factor	1.15 & 1.15
404T	Enclosure	Totally Enclosed Fan Cooled
Thermostat	Efficiency	94.5 & 94.1 %
40 °C	Frequency	60 & 50 Hz
154-142/71 & 140/70 A	Power Factor	83.4
Continuous	Insulation Class	F
В	KVA Code	G
6316	Opp Drive End Bearing Size	6314
Recognized	CSA	Υ
Y	IP Code	43
1		
	45.0 & 37.0 kW 1190 & 990 rpm 404T Thermostat 40 °C 154-142/71 & 140/70 A Continuous B 6316 Recognized	45.0 & 37.0 kWVoltage1190 & 990 rpmService Factor404TEnclosureThermostatEfficiency40 °CFrequency154-142/71 & 140/70 APower FactorContinuousInsulation ClassBKVA Code6316Opp Drive End Bearing SizeRecognizedCSA

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.089 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	36.42 in
Shaft Diameter	2.875 in	Shaft Extension	7.25 in
Assembly/Box Mounting	F1 ONLY	Inverter Load	CONSTANT 10:1
Connection Drawing	004172.01	Outline Drawing	16954560le

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:06/21/2023







CATALOG #: 170098.60

CONN. DIAGRAM: 004172.01

MOUNTING: F1 ONLY

OUTLINE: 16954560 WINDING #: T19606012 FR 3 A

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
60&50	45.0&37.0	1200	1190&990	404T	TEFC	G	В

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	АМВ°С
З	60/50	208-230/460&190/380	154-142/71&140/70	Y START D RUN OR INV	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	94.5	3/4 LOAD EFF:	94.5	1/2 LOAD EFF:	94	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	84.8	3/4 LOAD PF:	79.8	1/2 LOAD PF:	71.2	93.6	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
265 LB-FT	940 / 470	502 LB-FT 189 %	678 LB-FT 256 %	56

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
58 dBA	68 dBA	26.3 LB-FT^2	- LB-FT^2	15 SEC.	2	1040 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	SHAFT TYPE		SPECIAL ODE	SHAFT	FRAME
DE	ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	MATERIAL	MATERIAL
BALL	BALL		т.	NONE	NONE		
6316	6314	POLYREX EM		NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

		THERMO-PROTECT	ORS		TUERMICTORC	CONTROL	L SPACE HEATERS	
-	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		10:1	
Ν				Ē	NCODER: NONE			
0					NONE NONE	PPR		
т				Ē	RAKE: NONE	NONE		
_				r	NONE P/N NON	NE		
Е				1	NONE NONE			
s				1	NONE FT-LB NO	NE V r	NONE HZ	

Uncontrolled Copy

Date	: 1/17/	/2018		Data S				170098.60		
					SON					•
				Moto	r Load Data	®		Data	@ 460	v
bad	0%	25%	50%	75%	100%	115%	125%	LR		
urrent (Amps)	25.6	31.7	42.9	56.9	71.0	81.5	89.1	470		
rque (ft-lb)	0.00	67.5	135	203	265	291	337	502		
M	1200	1198 90.7	1196 94.0	1193 94.5	1190 94.5	1,189 94.5	1188 94.5	0		
ficiency (%) F. (%)	5.3	50.2	94.0 71.2	79.8	83.4	84.0	84.8	0.0		
. ,		Motor Speed Da								1
eed (RPM)	LR 0	Pull-Up 600	BD 1104	Rated 1190	1200			nformation Block		
rrent (Amps)	470	432	282	71.0	25.6	HP		60.0		
que (ft-lb)	502	427	678	265	0.00	Sync. RPM		1200		
						Frame		404		
_	Efficiency (%)	—— P.F. (%)		urrent (Amps)		Enclosure		TEFC		
100.0					100.0	Construction		TFC		
						Voltage		208-230/460#190/380	V	
					90.0	Frequency		60	Hz	
90.0						Design		A		
					80.0	LR Code letter		G		
80.0					70.0	Service Factor	1	1.15	0.0	
					70.0 A	Temp Rise @ F	L	55 CONT	°C	
					60.0 M	Duty Ambient		40	°C	
70.0					00.0 Р S	Elevation		1,000	feet	
					50.0	Rotor/Shaft wk ²		26.3	Lb-Ft ²	
60.0						Ref Wdg		T19606012 FR		
00.0					40.0	Sound Pressure	@1M	58	dBA	
							C C			
50.0					30.0	VFD Rating		CONSTANT 10	:1	
					20.0	Outline Dwg		169545		
					20.0	Conn. Diag		004172	01	
40.0					10.0	Additional Spec	ifications:			
						0				
30.0					0.0			IV CKT (OHMS / PHASE)		
0% 20%	6 40%	60% 80% LOAD	100%	120% 1	.40%	R1 0.0000	R2 0.0000	X1 0.0000	X2 0.0000	0.0
				Smood '						
					Torque C	urve				
			т.			A				
800.0			—_To			Amps			500.0	
800.0						Amps				
800.0						Amps			500.0	
			T(Amps			450.0	
700.0						Amps		\mathbf{i}		
						Amps			- 450.0	
700.0					~	Amps			450.0	
700.0					>	Amps			- 450.0 - 400.0 - 350.0	
700.0						Amps			- 450.0	A
700.0 600.0 500.0 T O R 400.0						Amps			- 450.0 - 400.0 - 350.0	A
700.0 600.0 500.0 T O R 400.0 Q						Amps			- 450.0 - 400.0 - 350.0 - 300.0	A
700.0 600.0 T O R 400.0 U U						Amps			- 450.0 - 400.0 - 350.0 - 300.0	A M P S
700.0 600.0 500.0 T O R 400.0 Q U						Amps			- 450.0 - 400.0 - 350.0 - 300.0 - 250.0	A M P S
700.0 600.0 T 0 R 400.0 U F						Amps			- 450.0 - 400.0 - 350.0 - 300.0 - 250.0	A M P S
700.0 600.0 T 0 R 400.0 U F						Amps			- 450.0 - 400.0 - 350.0 - 300.0 - 250.0 - 200.0	A M P S
700.0 600.0 500.0 T O R 400.0 Q U E 300.0						Amps			- 450.0 - 400.0 - 350.0 - 300.0 - 250.0 - 200.0	A M P S
700.0 600.0 500.0 R 400.0 U E 300.0 200.0						Amps			- 450.0 - 400.0 - 350.0 - 300.0 - 250.0 - 200.0 - 150.0	A M P S
700.0 600.0 500.0 T O R 400.0 Q U E 300.0						Amps			- 450.0 - 400.0 - 350.0 - 300.0 - 250.0 - 200.0 - 150.0	A M P S
700.0 600.0 500.0 R 400.0 U E 300.0 200.0									- 450.0 - 400.0 - 350.0 - 300.0 - 250.0 - 200.0 - 150.0 - 100.0 - 50.0	A M P S
700.0 600.0 500.0 R 400.0 U E 300.0 200.0	200			600	88		1000	1200	- 450.0 - 400.0 - 350.0 - 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 : 170098.60

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

Catalog No : 170098.60

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 09/01/2022

(€ 22

Authorized Representative in the Community:

Julian Clark Marketing Engineer