

PRODUCT INFORMATION PACKET



Model No: 140470.00

Catalog No: 140470.00

WATTSaver® General Purpose Motor, 7.50 & 7.50 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V,
1800 & 1500 RPM, 213T Frame, DP



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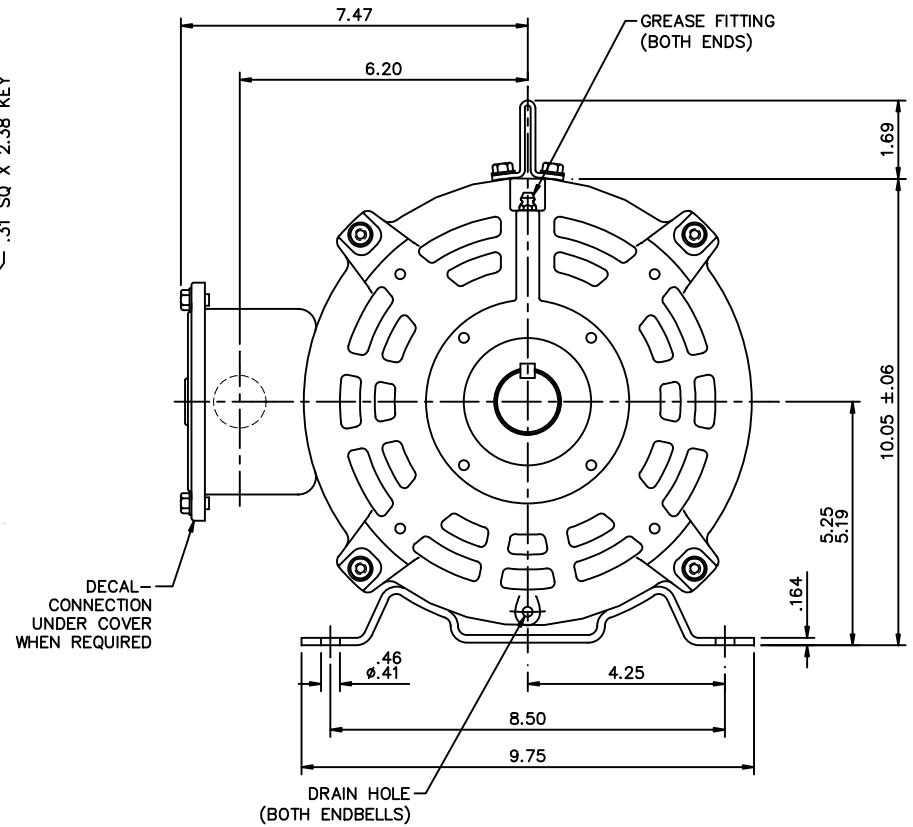
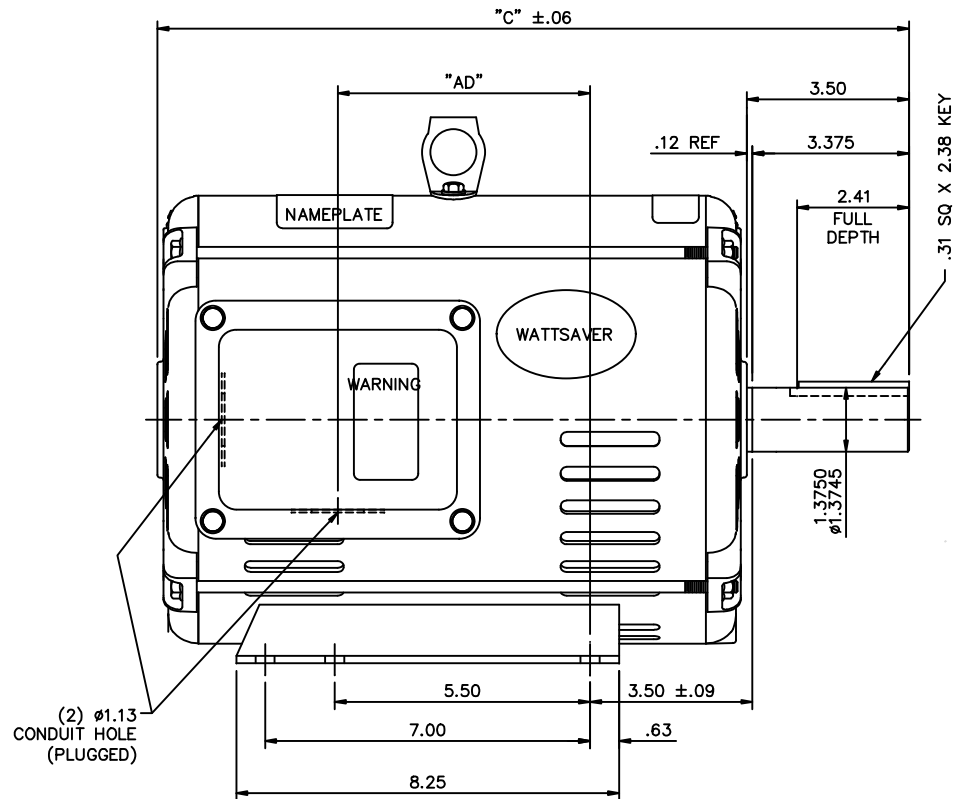


Nameplate Specifications

Phase	3	Output HP	7.50 & 7.50 Hp
Output KW	5.6 & 5.6 kW	Voltage	208-230/460 & 190/380 V
Speed	1765 & 1460 rpm	Service Factor	1.25 & 1.25
Frame	213T	Enclosure	Drip Proof
Thermal Protection	Automatic	Efficiency	91 & 90.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	21.8-20.8/10.4 & 24/12 A	Power Factor	74
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6207	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

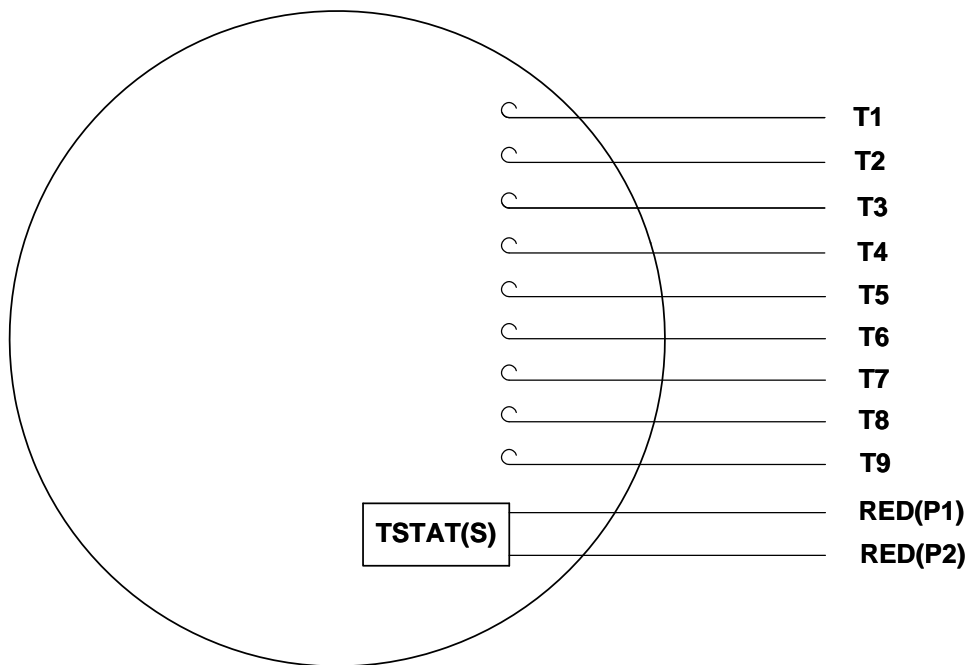
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	1.13 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	16.25 in
Frame Length	11.00 in	Shaft Diameter	1.375 in
Shaft Extension	3.38 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	037605-1100	Connection Drawing	005010.20



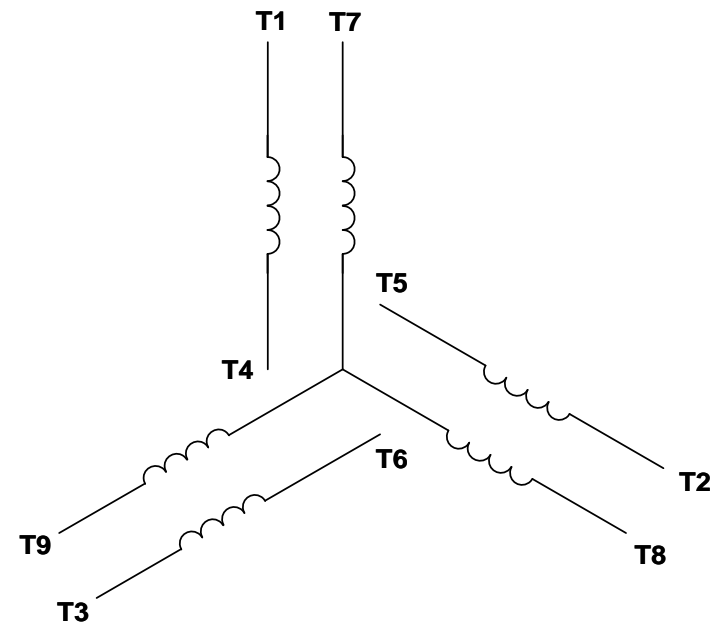
DASH NO.	"C"	"AD"
1000	15.25	4.50
1050	15.75	5.00
1100	16.25	5.50
1150	16.75	6.00
1200	17.25	6.50
1250	17.75	7.00

		TOLERANCES UNLESS SPECIFIED		LEESON	ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN LST 2/11/03	
		DEC.	INCHES			CHK	
		.X	±.1			APPD	RW 2/12/03
		.XX	±.03			SCALE	3=8
02	UPDATED PER MT2 CONVERSION	LST	4/22/10			REF	OL140470
01	4 HOLES ADDED IN DE BKT,N/P REVISED-ISAAC.09-4736	AK	11/03/2009			FMF	
REVISION		BY & DATE		CHK	ANG	±1/2"	FINISH
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		DIST					
				TITLE		OUTLINE- 210T FRAME DRIP PROOF- RIGID	
				MAT'L		WATSAVER	
				FINISH		PREV	
				CAD FILE		037605	
				SIZE	B	DRAWING NO.	037605
						REV.	02

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END. Uncontrolled Copy



LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

DRAWING REVISION G	REVISION BY MVG	DATE 04/05/2017
ECO ECO-0121253	APPROVED BY SM	DATE 04/05/2017
ECO DESCRIPTION ADDED P1 & P2 FOR TSTAT		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.01	[±0.25]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP			
EDGES: .003/.015 [.076/.381] X 45°			
CORNER FILLETS: R.02 [.51]			
MACHINED SURFACES: 125/3.2			
INCH/mm			
mm SHOWN IN [BRACKETS]			

DRAWN BY DBT 12/16/97	DATE
APPROVED BY KH 12/17/97	DATE
REFERENCE	
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.	
DESCRIPTION CONN DIAGRAM-EXTERNAL 3 PHASE WITH PROTECTOR	
MATERIAL DECAL - 004014 (TSTAT) - 080582	PROCESS/FINISH STOCK
SIZE A	DRAWING NUMBER 00501020
SHEET 1 OF 1	



CERTIFICATION DATA SHEET

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

CATALOG #: 140470.00

CONN. DIAGRAM: 005010.20

OUTLINE: 037605-1100

MOUNTING: F1 ONLY

WINDING #: T9494 3 A

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2 & 7 1/2	5.60 & 5.60	1800	1765 & 1460	213T	DP	H	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	208-230/460 & 190/380	21.8-20.8/10.4 & 24/12	ACROSS THE LINE	CONTINUOUS	F4	1.25/1.25	40

FULL LOAD EFF:	91 & 90.5	3/4 LOAD EFF:	90.6	1/2 LOAD EFF:	89.4	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	74 & 78	3/4 LOAD PF:	71.5	1/2 LOAD PF:	61.8	0	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.5 LB-FT	126 / 63	40 LB-FT 178 %	72 LB-FT 320 %	25

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.801 LB-FT^2	0.8 LB-FT^2	0 SEC.	0	- 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	GREEN - LEESON WATTSaver

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6207	6206						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	AUTOMATIC	NONE	NONE	NONE	FALSE	NONE VOLTS

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INVERTER TORQUE: NONE			
INV. HP SPEED RANGE: NONE			
ENCODER: NONE			
NONE	NONE		
NONE	NONE	PPR	
BRAKE: NONE NONE			
NONE	P/N	NONE	
NONE	NONE		
NONE	FT-LB	NONE	V NONE Hz

Data Sheet

Date: 1/17/2018

140470.00



Data @ 460 V

Motor Load Data

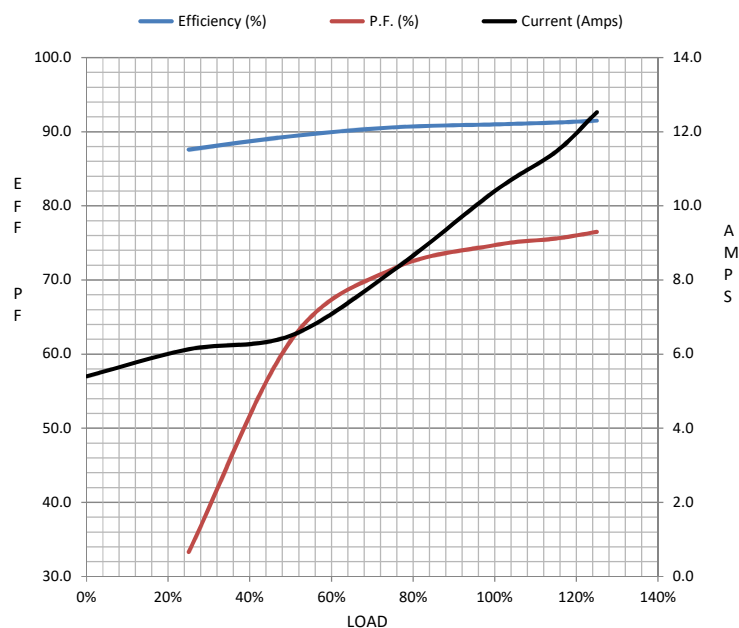
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.4	6.1	6.5	8.3	10.4	11.5	12.5	63.0	
Torque (ft-lb)	0.00	5.6	11.3	16.9	22.5	25.3	28.1	40.0	
RPM	1800	1791	1782	1773	1762	1758	1751	0	
Efficiency (%)		87.6	89.4	90.6	91.0	91.3	91.5		
P.F. (%)	5.0	33.3	61.8	71.5	74.7	75.6	76.5	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	400	1600	1762	1800
Current (Amps)	63.0	58.0	37.8	10.4	5.4
Torque (ft-lb)	40.0	39.0	72.0	22.5	0.00

Information Block

HP	7.5			
Sync. RPM	1800			
Frame	210			
Enclosure	DP			
Construction	NA			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	25	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.80	Lb-Ft²		
Ref Wdg	T9494 NONE			
Sound Pressure @ 1M	62	dBA		
VFD Rating	NONE			
Outline Dwg	037605-1100			
Conn. Diag	005010.20			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed - Torque Curve

