

PRODUCT INFORMATION PACKET



Model No: 170027.60

Catalog No: 170027.60

WATTSaver® General Purpose Motor, 60 & 50 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V,
1800 & 1500 RPM, 364T Frame, TEFC



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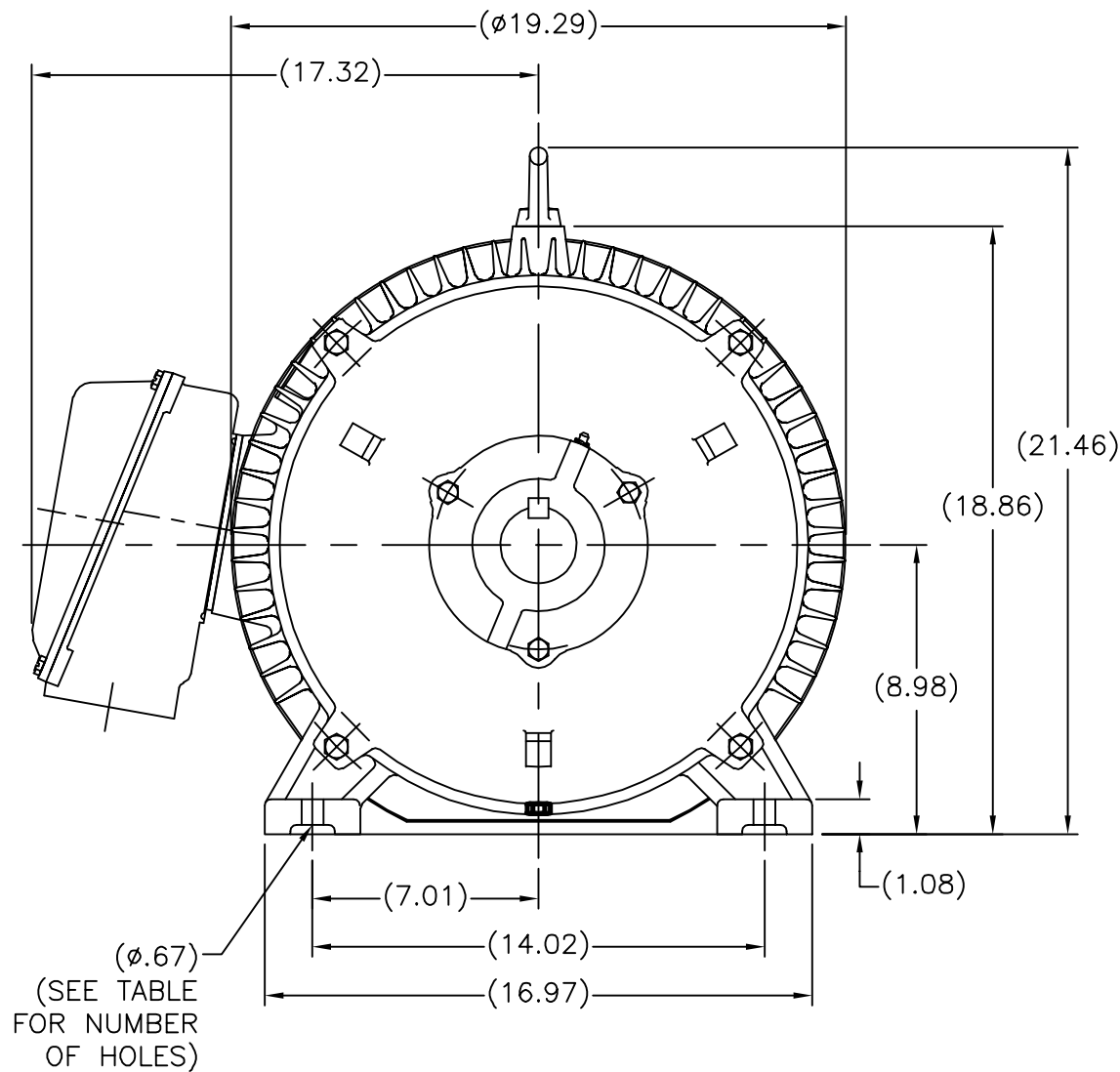
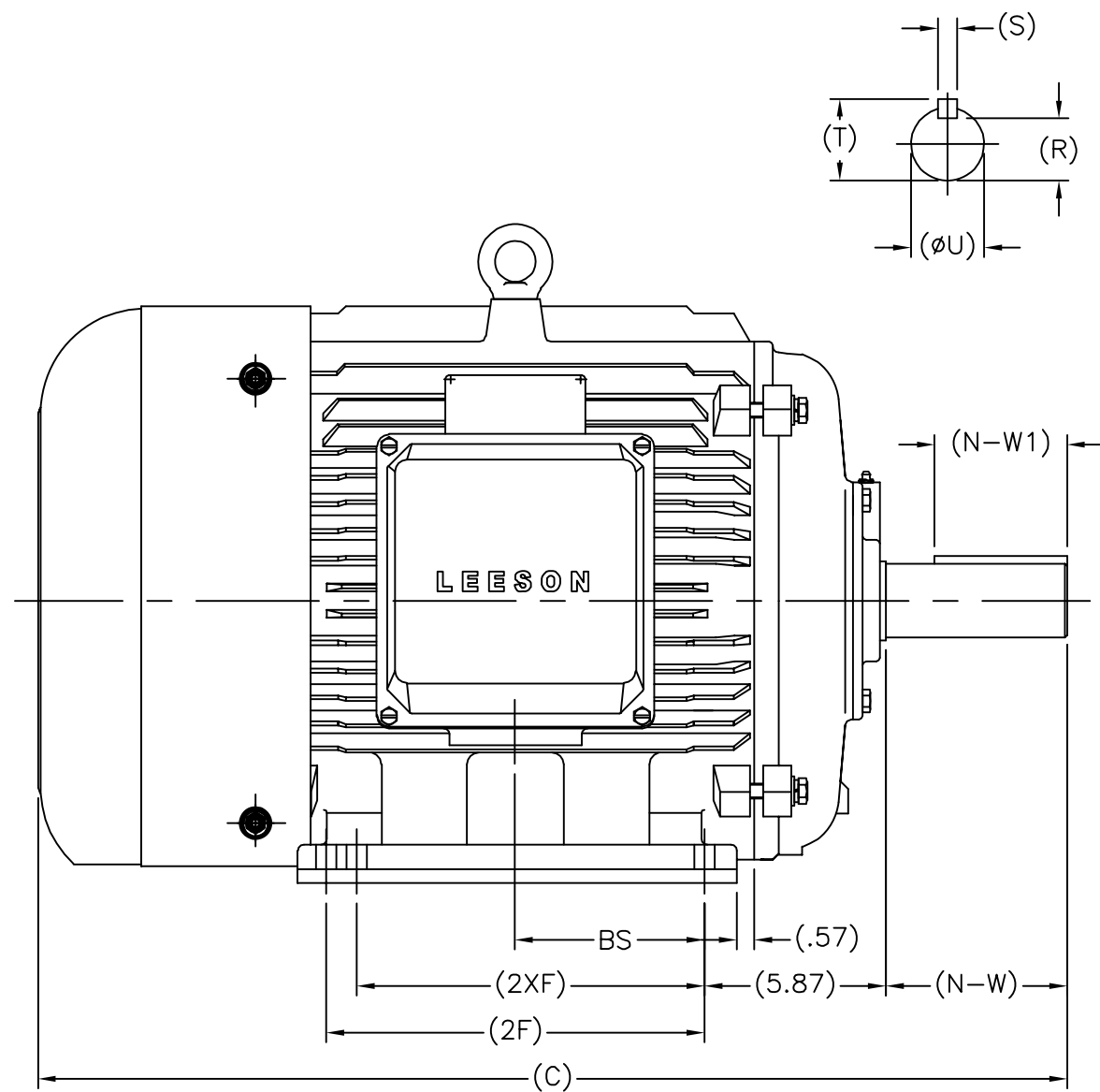
Nameplate Specifications


Phase	3	Output HP	60 & 50 Hp
Output KW	45.0 & 37.0 kW	Voltage	208-230/460 & 190/380 V
Speed	1790 & 1490 rpm	Service Factor	1.15 & 1.15
Frame	364T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.4 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	147-139/69.5 & 140/70 A	Power Factor	84.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	Recognized	CSA	Y
CE	Y	IP Code	43
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	.06 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	32.32 in
Shaft Diameter	2.375 in	Shaft Extension	5.88 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	004172.01	Outline Drawing	SS622180LE

SS622180LE



												TOLERANCES UNLESS SPECIFIED		 REGAL-BELOIT CORPORATION				DRAWN MSG 02/13/2007							
												DEC.	INCHES					CHK ML 02/16/2007							
												.X	±.1					APPD SB 02/23/2007							
NT364TS-2	30.20	11.26	---	4	3.74	2.05	1.87	1.59	0.50	2.09	---	.XX	±.03	TITLE OUTLINE 360 FR. - TEFC - (REDESIGNED)		SCALE N/A									
NT365TS-2	31.18	12.24	11.26	6								.XXX	±.005			REF									
NT364T-4, 6	32.32	11.26	---	4	5.87	4.29	2.37	2.01	0.63	2.64	5.60	.XXXX	±.0005	MAT'L.		FMF HEBEI									
NT365T-4, 6	33.31	12.24	11.26	6								6.10	FINISH			PREV									
												1 NO. ADDED BS DIM. UPDATED TITLE BLOCK, ECO-0048910		RFH 04/07/2014		EH	ANG	±.0005		REV					
												REVISION		BY & DATE		CHK	ANG	±7°30"		REV					
												THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT						RFP		CAD FILE SS622180LE		SIZE A	DRAWING NO. PAGE 1 OF 1		REV. 1
																		DIST							
FRAME	C	2F	2XF	HOLES	N-W	N-W1	ØU	R	S	T	BS														

WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

LOW VOLTAGE CONNECTION

HIGH VOLTAGE CONNECTION



REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

PART WINDING START USABLE ON 4 & 6 POLE MOTORS
LOW VOLTAGE CONNECTION ONLY

REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER - HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.

LINE LEADS



ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS
 ● RED LEADS OR P1, P2, FOR N/C THERMOSTAT

ACROSS THE LINE START & RUN

	LINE 1	LINE 2	LINE 3	JOIN & INSULATE SEPARATELY
HIGH VOLT	T1,T12	T2,T10	T3,T11	(T4,T7) (T5,T8) (T6,T9)
LOW VOLT	T1,T6 T7,T12	T2,T4 T8,T10	T3,T5 T9,T11	

TOLERANCES
UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.01

.XXX ±.005

.XXXX ±.0005

ANG ±1/2"



ELECTRIC MOTORS
GEARMOTORS
AND DRIVES

DRAWN WLW 09/08/77

CHK RPB 09/12/77

APPD JCW 09/12/77

SCALE 1=1

REF

FMF

PREV

NO.	REVISION	BY & DATE	CHK	ANG
03	REV'D LOW VOLTAGE CONN. LEADS PER ELEC.	BJB 06/07/00	.XX	±.01
02	ADDED T-STAT. NOTES PER ELECTRICAL	KMM 06/02/98	.XXX	±.005
01	REDRAWN TO CAD	DBT 06/02/97	.XXXX	±.0005

TITLE DELTA - WYE CONNECTION DIAGRAM

MAT'L.

FINISH

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RFP

DIST

CAD FILE 00417201

SIZE

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DRAWING NO.

004172-01

REV.

03

Data Sheet

Date: 1/29/2018

170027.60



Data @ 460 V

Motor Load Data

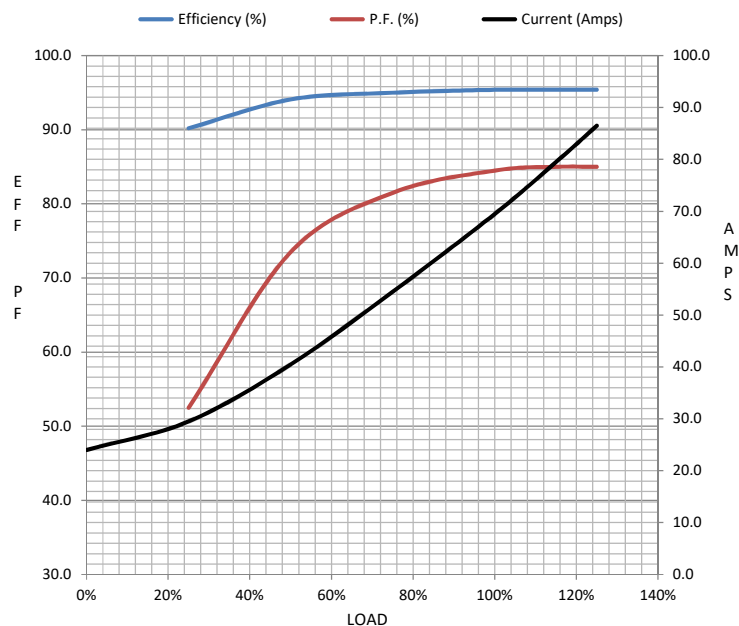
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	24.0	29.5	40.5	54.5	69.5	79.5	86.5	435	
Torque (ft-lb)	0.00	44.0	88.0	132	176	203	221	300	
RPM	1800	1798	1795	1792	1790	1787	1785	0	
Efficiency (%)		90.2	94.1	95.0	95.4	95.4	95.4		
P.F. (%)	5.5	52.5	73.5	81.5	84.5	85.0	85.0	29.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1790	1800
Current (Amps)	435	400	275	69.5	24.0
Torque (ft-lb)	300	275	500	176	0.00

Information Block

HP	60.0			
Sync. RPM	1800			
Frame	364			
Enclosure	TEFC			
Construction	TFC			
Voltage	208-230/460#190/380	V		
Frequency	60	Hz		
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	55	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.00	Lb-Ft²		
Ref Wdg	T18304019	NONE		
Sound Pressure @ 1M	999	dBA		
VFD Rating	CONSTANT 10:1			
Outline Dwg	SS622180LE			
Conn. Diag	004172.01			
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

