PRODUCT INFORMATION PACKET

Model No: 170096.60
Catalog No: 170096.60
WATTSAVER® General Purpose Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1200 & 1000 RPM, 364T Frame, TEFC

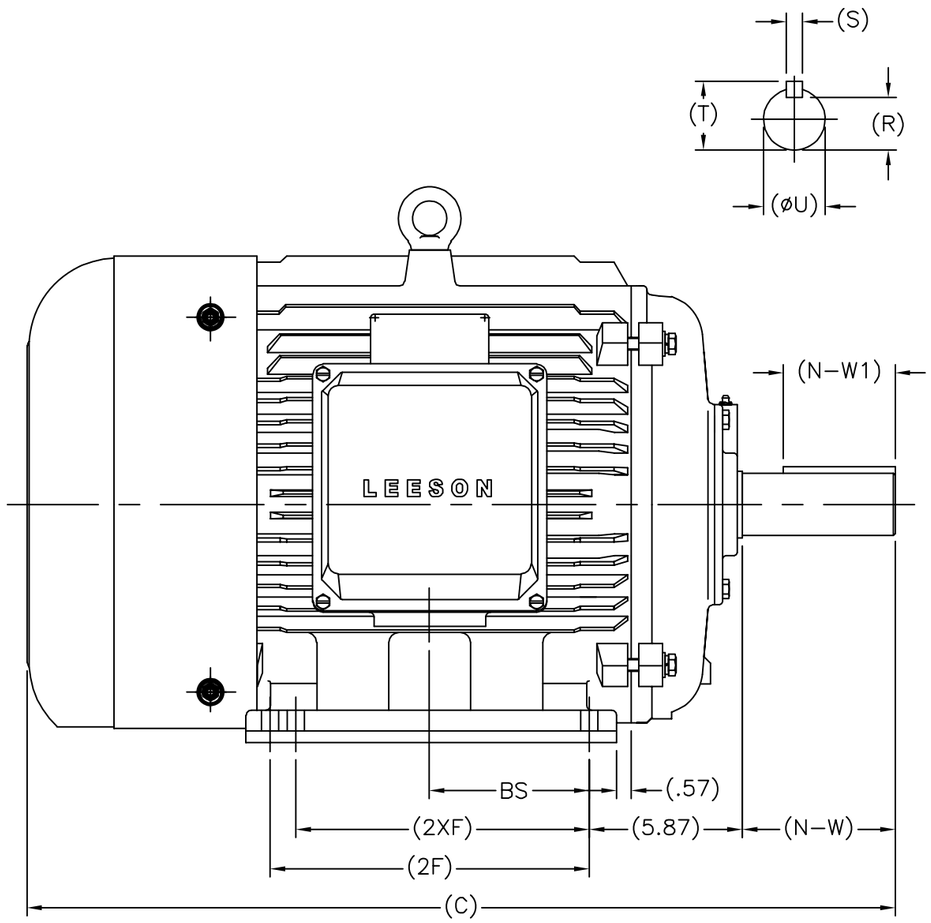
Nameplate Specifications

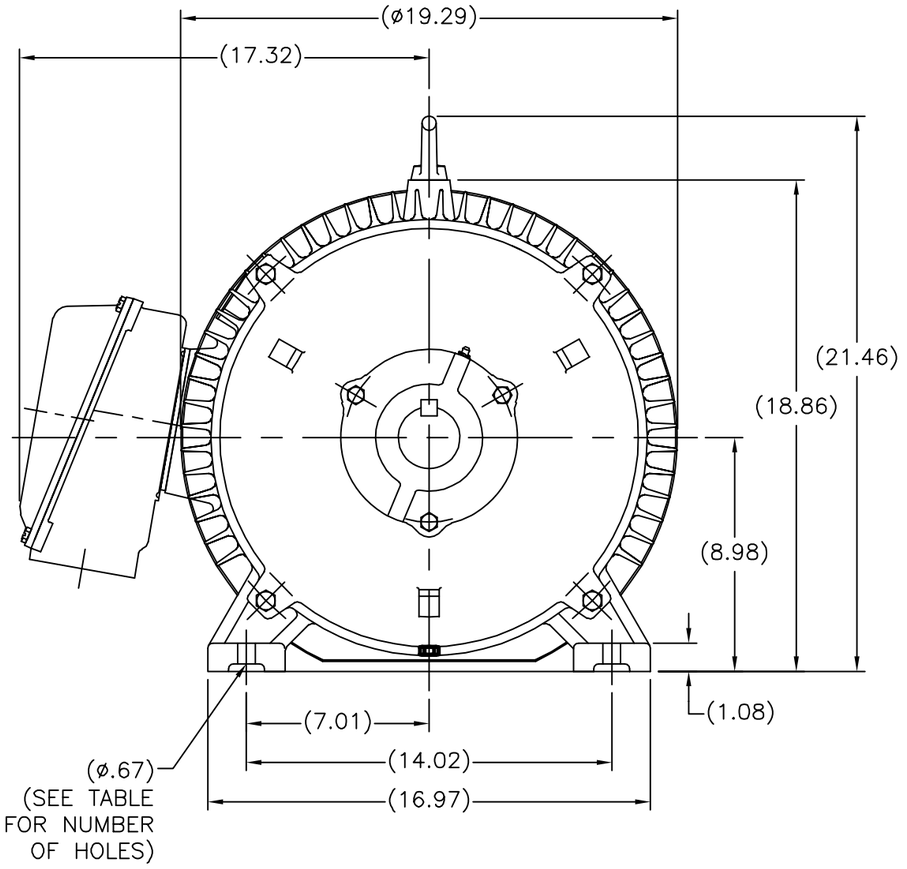
Phase	3	Output HP	40 & 30 Hp
Output KW	30.0 & 22.4 kW	Voltage	208-230/460 & 190/380 V
Speed	1190 & 990 rpm	Service Factor	1.15 & 1.15
Frame	364T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.1 & 93.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	112-102/51 & 89.6/44.8 A	Power Factor	78
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	N	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.124 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 ONLY	Inverter Load	CONSTANT 10:1
Connection Drawing	004172.01	Outline Drawing	SS622180LE

SS622180LE





FRAME	C	2F	2XF	HOLES	N–W	N–W1	øU	R	S	T	BS
NT364TS–2	30.20	11.26	---	4	3.74	2.05	1.87	1.59	0.50	2.09	---
NT365TS–2	31.18	12.24	11.26	6							
NT364T–4, 6	32.32	11.26	---	4	5.87	4.29	2.37	2.01	0.63	2.64	5.60
NT365T–4, 6	33.31	12.24	11.26	6							6.10

NO.	REVISION	BY & DATE	CHK
1	ADDED BS DIM. UPDATED TITLE BLOCK, ECO–0048910	RFH 04/07/2014	EH

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

REGAL REGAL-BELOIT CORPORATION

TITLE OUTLINE
360 FR. – TEFC – (REDESIGNED)

MAT'L.

FINISH

RFP

DIST

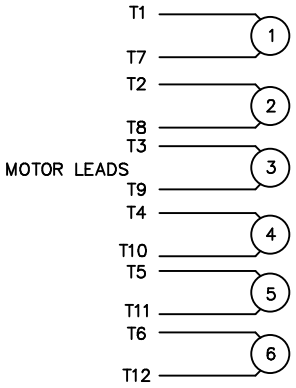
CAD FILE SS622180LE

DRAWN	MSG 02/13/2007
CHK	ML 02/16/2007
APPD	SB 02/23/2007
SCALE	N/A
REF	
FMF	HEBEI
PREV	

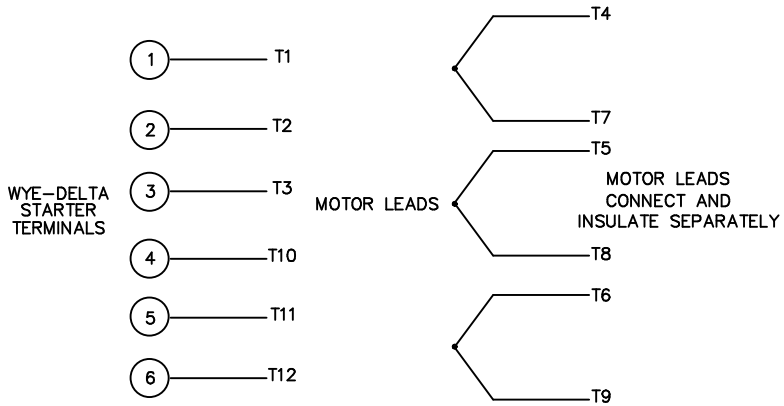
SIZE A | DRAWING NO. SS622180LE | PAGE 1 OF 1 | REV. 1

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

LOW VOLTAGE CONNECTION

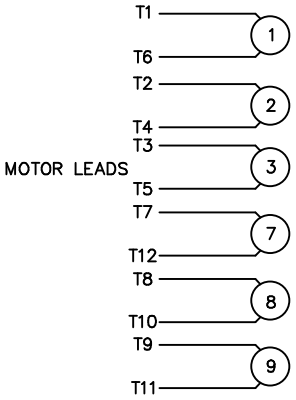


HIGH VOLTAGE CONNECTION



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

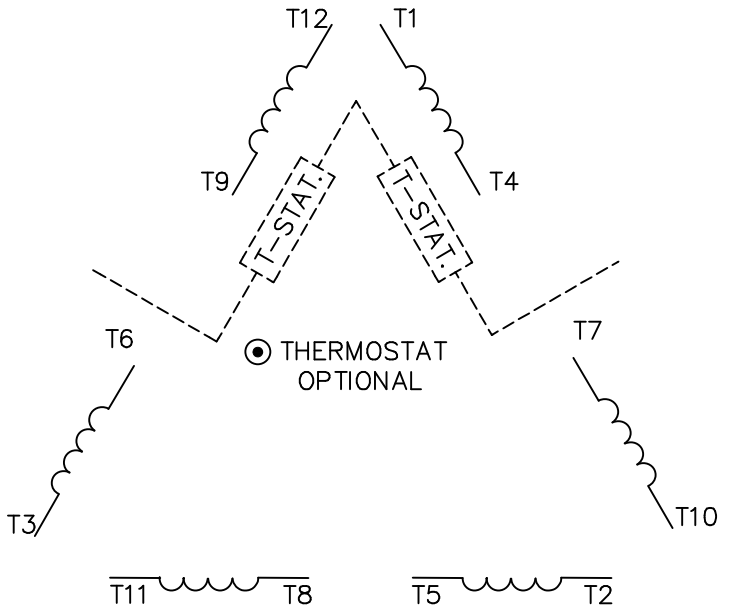
PART WINDING START USABLE ON 4 & 6 POLE MOTORS
LOW VOLTAGE CONNECTION ONLY



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	

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

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE DELTA – WYE CONNECTION DIAGRAM

MAT'L.

FINISH

CAD FILE 00417201

RFP

DIST

DRAWN	WLW 09/08/77
CHK	RPB 09/12/77
APPD	JCW 09/12/77
SCALE	1=1
REF	
FMF	
PREV	

SIZE A | DRAWING NO. 004172–01 | REV. 03

6/28/2007 3:22:15 PM -

Data Sheet

Date: 1/31/2018

LEESON

170096.60

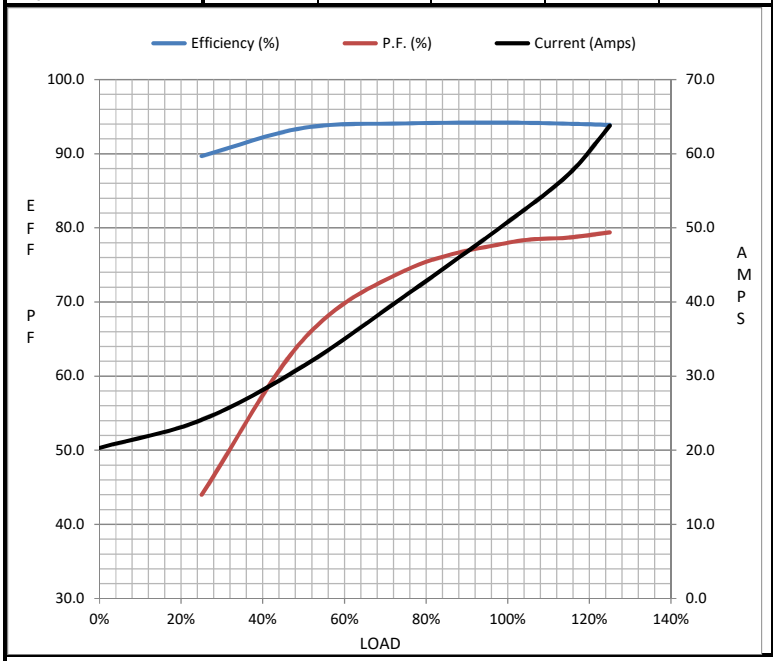
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	20.3	24.1	31.4	40.9	50.8	57.3	63.8	302	
Torque (ft-lb)	0.00	44.5	89.4	135	176	200	225	298	
RPM	1200	1198	1196	1193	1190	1,189	1188	0	
Efficiency (%)		89.7	93.5	94.1	94.2	94.1	93.9		
P.F. (%)	4.6	44.0	65.0	74.3	78.0	78.7	79.4	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1104	1190	1200
Current (Amps)	302	278	181	50.8	20.3
Torque (ft-lb)	298	265	420	176	0.00



Information Block

HP	40.0	
Sync. RPM	1200	
Frame	364	
Enclosure	TEFC	
Construction	TDC	
Voltage	208-230/460#190/380	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	51	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.00	Lb-Ft²
Ref Wdg	T18306012 FR	
Sound Pressure @ 1M	70	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