PRODUCT INFORMATION PACKET

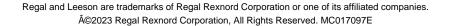


Model No: 170035.60 Catalog No: 170035.60

WATTSAVER® General Purpose Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V,

3600 & 3000 RPM, 284TS Frame, TEFC









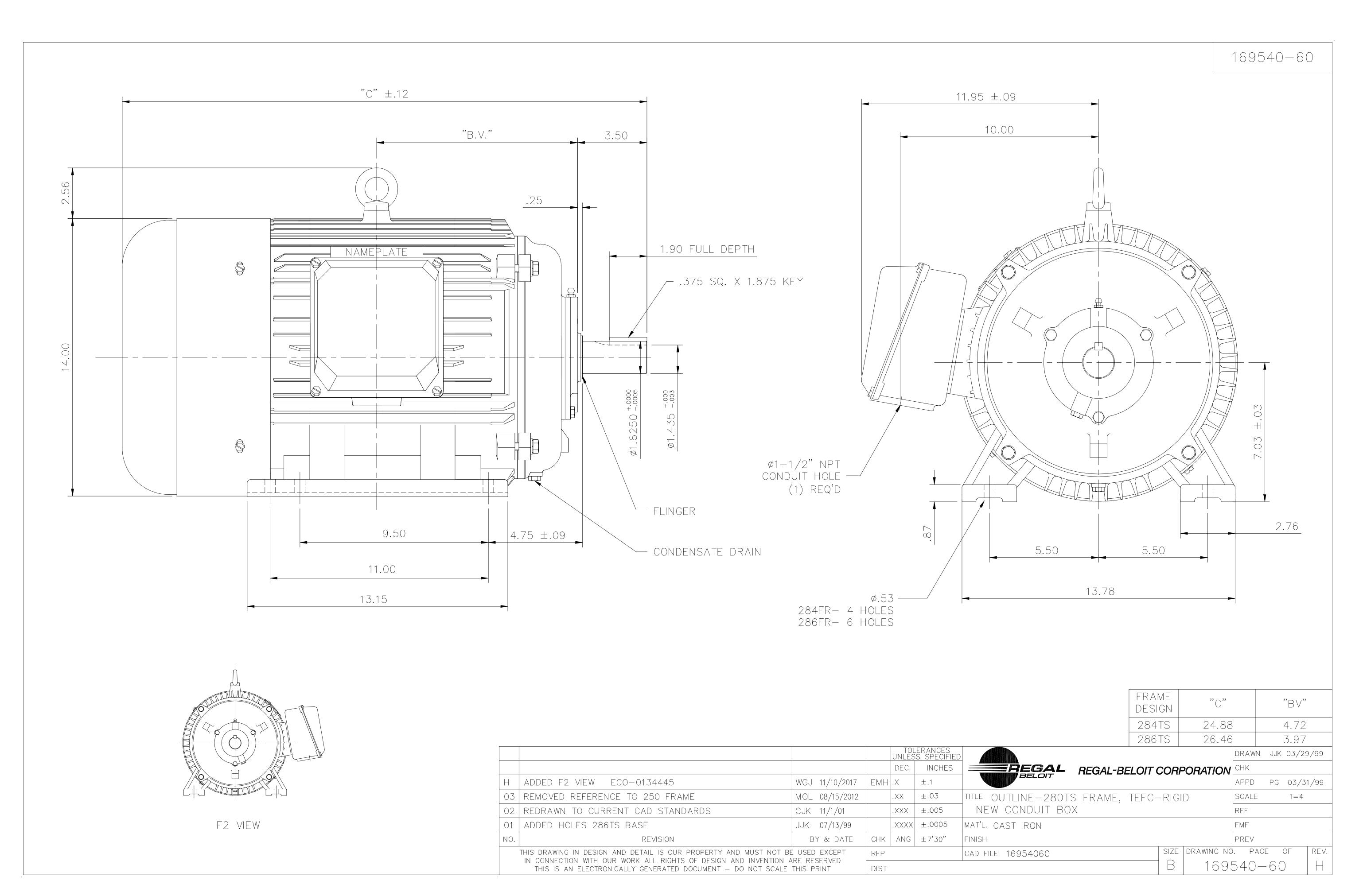
Nameplate Specifications

Phase	3	Output HP	25 & 20 Hp
Output KW	18.7 & 14.9 kW	Voltage	208-230/460 & 190/380 V
Speed	3555 & 2955 rpm	Service Factor	1.15 & 1.15
Frame	284TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93 & 93 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	63-56.5/28.3 & 53.5/26.8 A	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	G
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6309
UL	Recognized	CSA	Υ
CE	Υ	IP Code	43
Number of Speeds	1		

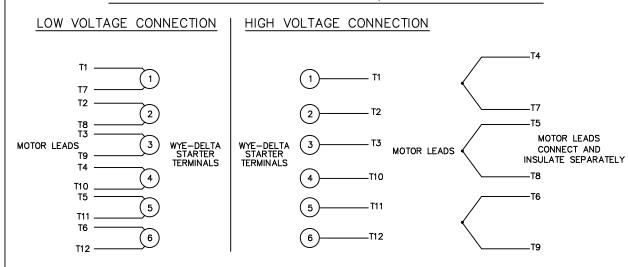
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.225 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	24.88 in
Shaft Diameter	1.625 in	Shaft Extension	3.25 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	004172.01	Outline Drawing	16954060-284TS

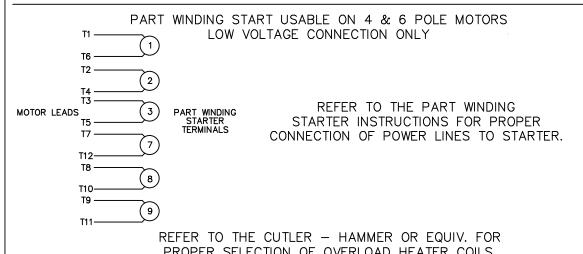
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WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.



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



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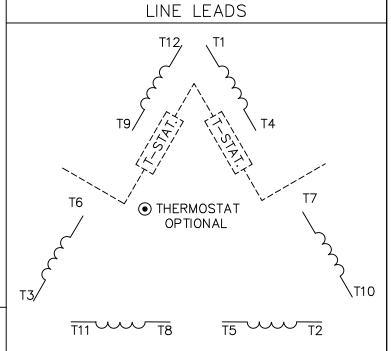
RFP

DIST

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03	REV'D LOW VOLTAGE CONN. LEADS PER ELEC.	BJB 06/07/00		.xx	±.01	TITLE
02	ADDED T-STAT. NOTES PER ELECTRICAL	KMM 06/02/98		.xxx	±.005	
01	REDRAWN TO CAD	DBT 06/02/97		.xxxx	±.0005	MAT'L.
NO.	REVISION	BY & DATE	СНК	ANG	±1/2°	FINISH

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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 & INSU SEPARATE									
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						

ELECTRIC MOTORS

SIZE

DELTA - WYE CONNECTION DIAGRAM

DRAWN WLW 09/08/77 RPB 09/12/77 APPD JCW 09/12/77 SCALE 1=1

REF

REV.

03

FMF

PREV 004172 - 01

DRAWING NO.

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

00417201

CAD FILE

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

CATALOG #: 170035.60

CONN. DIAGRAM: 004172.01 **OUTLINE:** 16954060-284TS **WINDING #:** T14502016 1

0

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
25&20	18.7&14.9	3600	3555&2955	284TS	TEFC	G	В

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	амв°с
3	60/50	208-230/460&190/380	63-56.5/28.3&53.5/26.8	Y START D RUN OR INV	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	93&93	3/4 LOAD EFF:	93	1/2 LOAD EFF:	91.7	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	88&91	3/4 LOAD PF:	86.5	1/2 LOAD PF:	81	91.7	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
37 LB-FT	364 / 182	72 LB-FT 195 %	102 LB-FT 276 %	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	ROTOR WK^2 MAX. WK^2 SAFE STALL TIME STARTS / HOUR		IUR WK^/ MAX.WK^/ SAFESIALI LIME /		APPROX. MOTOR WGT
- dBA	- dBA	1.9 LB-FT^2	- LB-FT^2	20 SEC.	-	400 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)

BEARINGS		GREASE	CHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME	
DE	ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	MATERIAL	MATERIAL	
BALL	BALL	DOLVDEY EM	TS	NONE	NONE	1045 HOT BOLLED (C 204)	CAST IRON	
6311	6309	POLYREX EM				1045 HOT ROLLED (C-204)		

	THERMO-PROTECT	THERMISTORS	CONTROL	SPACE HEATERS			
THERMOSTATS	PROTECTORS	PROTECTORS WDG RTDs BRG RTDs		THERMISTORS	CONTROL	SPACE REALERS	
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE	VOLTS

INVERTER TORQUE: CONSTANT 2:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

T BRAKE: NONE NONE NONE P/N NONE NONE NONE NONE

NONE TILB NONE V NONE HZ

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