

# PRODUCT INFORMATION PACKET



Model No: 170038.00

Catalog No: 170038.00

General Purpose Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 3600 & 3000 RPM,  
286TS Frame, DP



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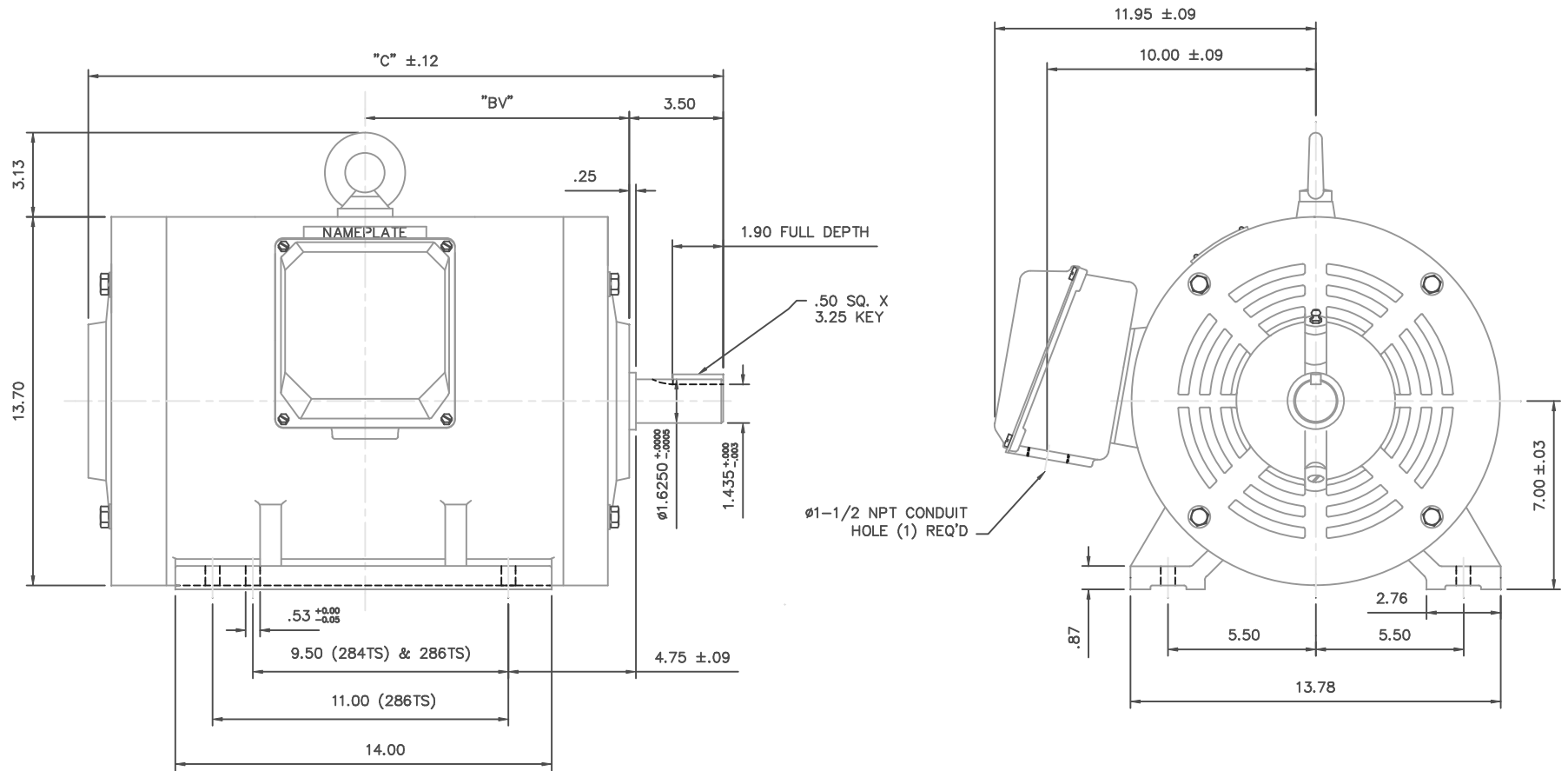


## Nameplate Specifications

Phase	3	Output HP	40 & 30 Hp
Output KW	30.0 & 22.4 kW	Voltage	208-230/460 & 190/380 V
Speed	3560 & 2955 rpm	Service Factor	1.15 & 1.15
Frame	286TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	93.6 & 93 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	100-91/45.5 & 79/39.5 A	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	A	KVA Code	H
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6211
UL	Recognized	CSA	Y
CE	Y	IP Code	23
Number of Speeds	1		

## Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.198 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	23.62 in
Shaft Diameter	1.625 in	Shaft Extension	3.25 in
Assembly/Box Mounting	F1 Only		
Outline Drawing	16955360	Connection Drawing	004172.01



NOTE: 286T HAS 6 MTG. HOLES,  
USING 254T AND 256T LOCATIONS

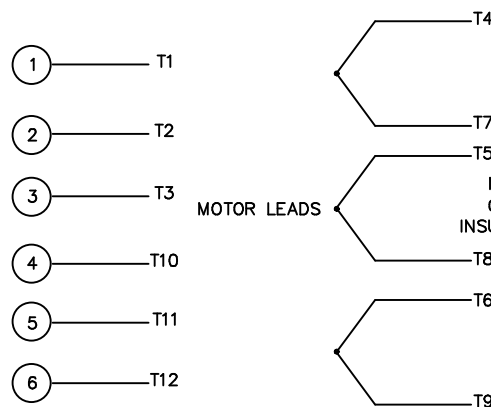
FRAME DESIGN	"C"	"BV"
284TS	22.17	9.11
286TS	23.62	9.83

		TOLERANCES UNLESS SPECIFIED		LEESON	ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN JJK 04/05/99
DEC.	INCHES	DEC.	INCHES			
.X	$\pm .1$	.XX	$\pm .03$	TITLE	OUTLINE 280TS FRAME DRIP PROOF - RIGID NEW CON-BOX	CHK PG 04/07/99
.XXX	$\pm .005$	.XXX	$\pm .0005$			APPD
A	REVISED TO NEW BORDER FORMAT	DWF 12/14/01		MAT'L	CAST IRON	SCALE 1=4
NO.	REVISION	BY & DATE	CHK	ANG	$\pm 1/2^\circ$	REF
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	PREV
				DIST	Drawing6	SIZE B
				DRAWING NO. 169553-60		REV. A

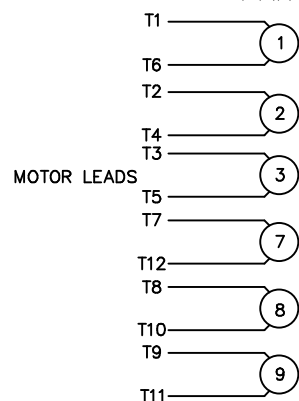
## WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

## LOW VOLTAGE CONNECTION

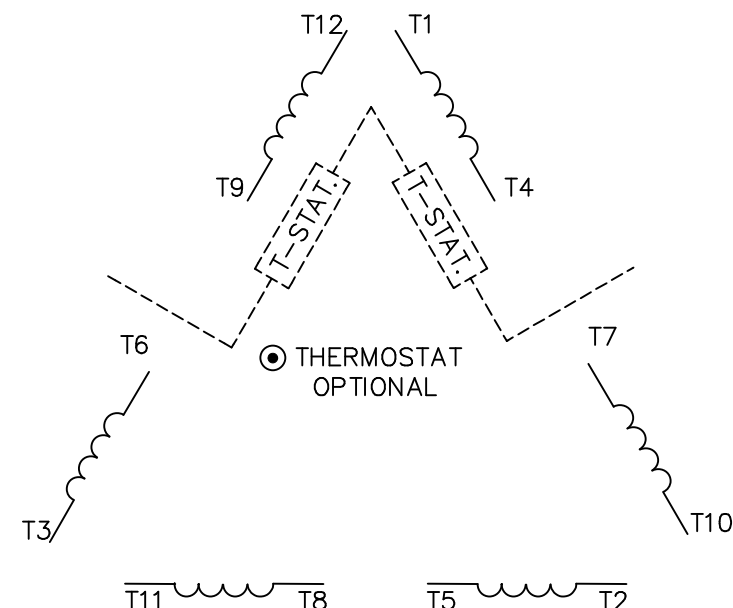
## HIGH VOLTAGE CONNECTION

WYE-DELTA  
STARTER  
TERMINALSWYE-DELTA  
STARTER  
TERMINALS

MOTOR LEADS

MOTOR LEADS  
CONNECT AND  
INSULATE SEPARATELYREFER 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 ONLYPART WINDING  
STARTER  
TERMINALSREFER 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 &amp; 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

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

NO. REVISION

BY &amp; DATE

CHK

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RFP

DIST

TITLE DELTA - WYE CONNECTION DIAGRAM

MAT'L.

FINISH

CAD FILE 00417201

SIZE

A

DRAWING NO.

004172-01

REV.

03