

# PRODUCT INFORMATION PACKET



Model No: 170006.00

Catalog No: 170006.00

General Purpose Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1800 & 1500 RPM,  
256T Frame, DP



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## Nameplate Specifications

Phase	3	Output HP	20 & 15 Hp
Output KW	14.9 & 11.2 kW	Voltage	208-230/460 & 190/380 V
Speed	1775 & 1480 rpm	Service Factor	1.15 & 1.15
Frame	256T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	93 & 93 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	55-51/25.5 & 47/23.5 A	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	N	IP Code	22
Number of Speeds	1		

## Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.41 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	22.60 in
Shaft Diameter	1.625 in	Shaft Extension	4 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	16955160-256T	Connection Drawing	004172.01

Technical drawing of a motor assembly, showing front, side, and end views with dimensions and labels.

**Front View Dimensions:**

- Overall width: "C"  $\pm 12$
- Overall height: 12.430  $\pm .06$
- Top mounting flange diameter: 2.441
- Distance from top flange to centerline: "BV"  $\pm .06$
- NAMEPLATE location: 4.250 from centerline
- Distance from centerline to shaft center: 4.000
- Shaft diameter:  $\phi 1.6250$
- Shaft length: 3.000 FULL DEPTH
- Shaft flinger dimension: 1.416  $+0.000$   $-0.003$
- Distance from centerline to base: 1.6250
- Base width: 8.250 (254T)  $+0.05$   $-0.00$
- Base height: 10.000 (256T)  $+0.05$   $-0.00$
- Distance from base to centerline: 4.250  $\pm .09$
- Overall width at base: "B"

**Side View Dimensions:**

- Overall width: 9.920  $\pm .09$
- Distance from centerline to shaft center: 8.350  $\pm .09$
- Key dimension: .38 SQ. x 2.88 KEY
- Shaft flinger dimension: 1.6250
- Shaft diameter:  $\phi 1.6250$
- Shaft length: 3.000 FULL DEPTH
- Shaft flinger dimension: 1.416  $+0.000$   $-0.003$
- Distance from centerline to base: 1.6250
- Base width: 8.250 (254T)  $+0.05$   $-0.00$
- Base height: 10.000 (256T)  $+0.05$   $-0.00$
- Distance from base to centerline: 4.250  $\pm .09$
- Overall width at base: "B"

**End View Dimensions:**

- Overall diameter: 12.500
- Distance from centerline to shaft center: 4.998
- Distance from centerline to base: 5.000
- Base width: 2.740
- Base height: .860
- Overall width at base: 6.249  $+0.000$   $-.060$
- Shaft flinger dimension: 1.6250
- Shaft diameter:  $\phi 1.6250$
- Shaft length: 3.000 FULL DEPTH
- Shaft flinger dimension: 1.416  $+0.000$   $-0.003$
- Distance from centerline to base: 1.6250
- Base width: 8.250 (254T)  $+0.05$   $-0.00$
- Base height: 10.000 (256T)  $+0.05$   $-0.00$
- Distance from base to centerline: 4.250  $\pm .09$
- Overall width at base: "B"

**Labels:**

- NAMEPLATE
- SHAFT FLINGER
- $\phi 1.25$  NPT CONDUIT HOLE

FRAME	"C"	"BV"	"B"
254T	20.94	8.23	10.25
256T	22.60	9.06	12.00

7/6/2007 8:13:15 AM -

ERROR: undefined  
OFFENDING COMMAND: fora

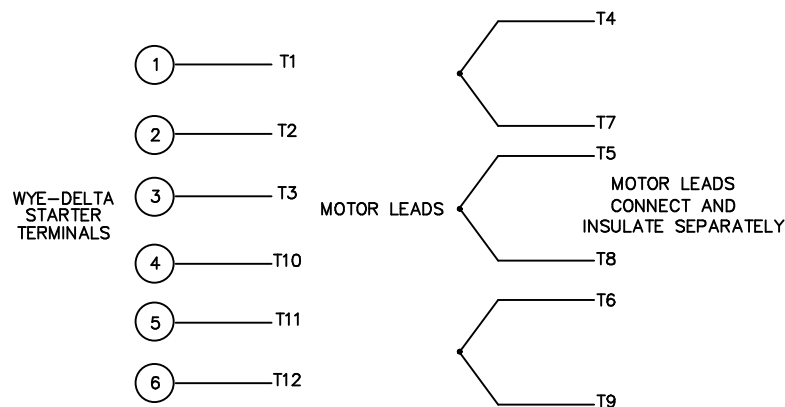
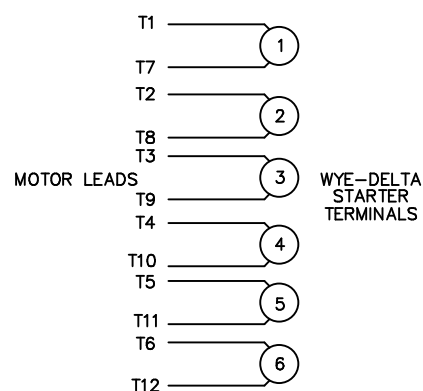
STACK:

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{dup type /operatortype eq {[ exch ] cvx def }{pop pop }ifelse }  
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/Pscript_WinNT_Compat  
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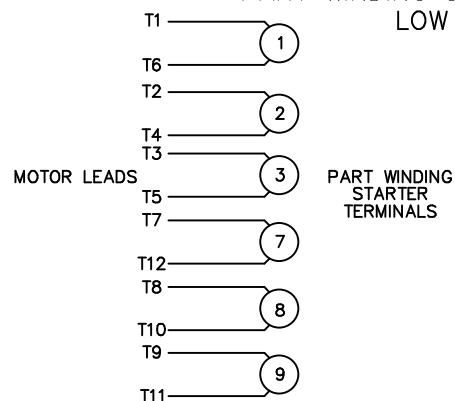
## WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

## LOW VOLTAGE CONNECTION

## HIGH VOLTAGE CONNECTION



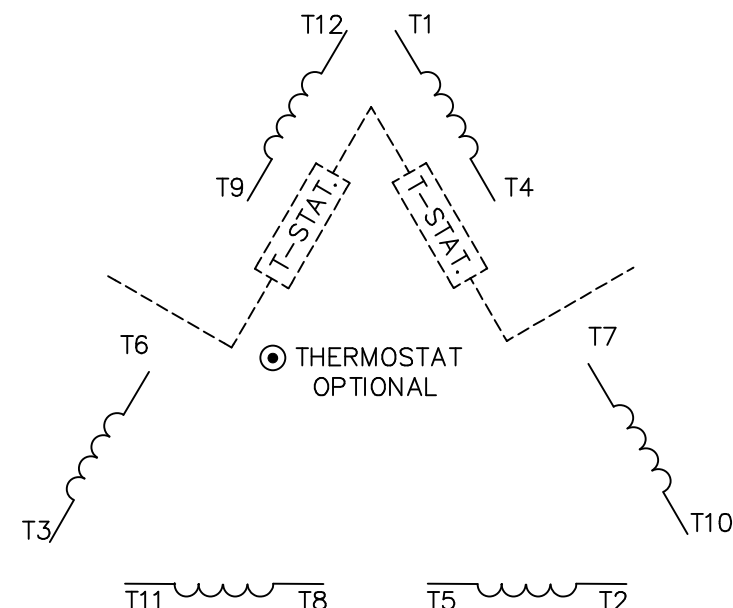
REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

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



## 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

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

A

DRAWING NO.

004172-01

REV.

03