

PRODUCT INFORMATION PACKET



Model No: 170034.00

Catalog No: 170034.00

General Purpose Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 3600 & 3000 RPM,
256T Frame, DP



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Nameplate Specifications

Phase	3	Output HP	25 & 20 Hp
Output KW	18.7 & 14.9 kW	Voltage	208-230/460 & 190/380 V
Speed	3545 & 2945 rpm	Service Factor	1.15 & 1.15
Frame	256T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	93 & 92.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	64-57/28.6 & 53/26.6 A	Power Factor	89
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	Y	IP Code	22
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	.326 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		
Connection Drawing	004172.01	Outline Drawing	16955160-256T

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

Front View Dimensions:

- Overall width: "C" ± 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: $\phi 1.6245$
- 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: 4.250 $\pm .09$
- Overall base width: 10.000 (256T) $+0.05$ -0.00
- Base to centerline distance: "B"
- Base to shaft center distance: 8.250 (254T) $+0.05$ -0.00
- Base to base distance: 10.000 (256T) $+0.05$ -0.00
- Base to base distance: 10.000 (256T) $+0.05$ -0.00
- Base to base distance: 10.000 (256T) $+0.05$ -0.00

Side View Dimensions:

- Overall width: 9.920 $\pm .09$
- Distance from centerline to shaft center: 8.350 $\pm .09$
- Shaft flinger dimension: 1.6250
- Shaft diameter: $\phi 1.6245$
- Shaft length: 3.000 FULL DEPTH
- Shaft flinger dimension: 1.416 $+0.000$ -0.003
- Base width: 8.250 (254T) $+0.05$ -0.00
- Base height: 4.250 $\pm .09$
- Base to centerline distance: "B"
- Base to shaft center distance: 8.250 (254T) $+0.05$ -0.00
- Base to base distance: 10.000 (256T) $+0.05$ -0.00
- Base to base distance: 10.000 (256T) $+0.05$ -0.00
- Base to base distance: 10.000 (256T) $+0.05$ -0.00

End View Dimensions:

- Overall diameter: 12.500
- Distance from centerline to shaft center: 8.350 $\pm .09$
- Shaft flinger dimension: 1.6250
- Shaft diameter: $\phi 1.6245$
- Shaft length: 3.000 FULL DEPTH
- Shaft flinger dimension: 1.416 $+0.000$ -0.003
- Base width: 8.250 (254T) $+0.05$ -0.00
- Base height: 4.250 $\pm .09$
- Base to centerline distance: "B"
- Base to shaft center distance: 8.250 (254T) $+0.05$ -0.00
- Base to base distance: 10.000 (256T) $+0.05$ -0.00
- Base to base distance: 10.000 (256T) $+0.05$ -0.00
- Base to base distance: 10.000 (256T) $+0.05$ -0.00

Labels:

- NAMEPLATE
- SHAFT FLINGER
- .38 SQ. x 2.88 KEY
- $\phi 1.25$ 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

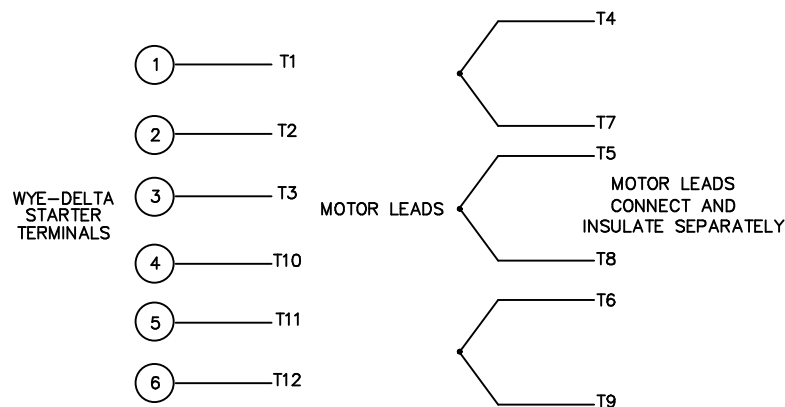
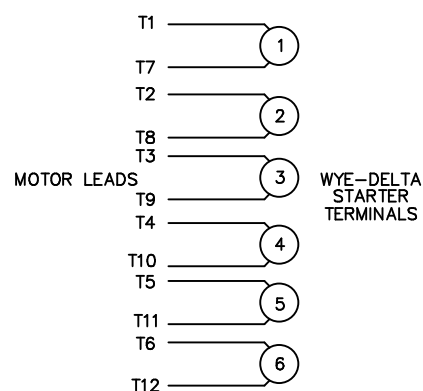
STACK:

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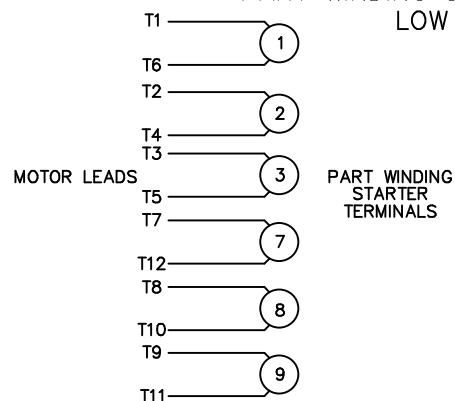
WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

LOW VOLTAGE CONNECTION

HIGH VOLTAGE CONNECTION



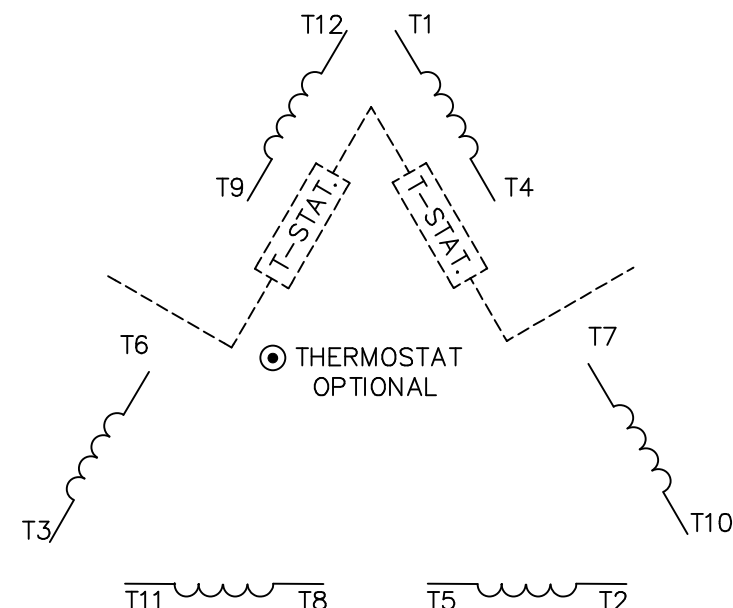
REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

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 & 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