

PRODUCT INFORMATION PACKET



Model No: 170065.60

Catalog No: 170065.60

WATTSaver® General Purpose Motor, 15 & 10 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V,
1800 & 1500 RPM, 254T Frame, DP



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Nameplate Specifications

Phase	3	Output HP	15 & 10 Hp
Output KW	11.2 & 7.5 kW	Voltage	208-230/460 & 190/380 V
Speed	1775 & 1480 rpm	Service Factor	1.15 & 1.15
Frame	254T	Enclosure	Drip Proof
Thermal Protection	Thermostat	Efficiency	93 & %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	40.6-37/18.5 & 29.2/14.6 A	Power Factor	82.5
Duty	Continuous	Insulation Class	F
Design Code	A	KVA Code	H
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	4	Rotation	Reversible
Resistance Main	.471 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	20.94 in
Shaft Diameter	1.625 in	Shaft Extension	4 in
Assembly/Box Mounting	F1 ONLY	Inverter Load	CONSTANT 4:1
Connection Drawing	004172.01	Outline Drawing	16955160-254T

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: .250 REF.
- Distance from centerline to base: 1.416 $+0.000$ -0.003
- Base width: 8.250 (254T) $+0.05$ -0.00
- Base height: .530 $+0.050$ -0.000
- Overall base width: 10.000 (256T) $+0.05$ -0.00
- Distance from base to centerline: 4.250 $\pm .09$
- Overall width: "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: $\phi 1.6245$
- Shaft length: 3.000 FULL DEPTH
- Shaft flinger dimension: 1.416 $+0.000$ -0.003
- SHAFT FLINGER label
- Ø1.25 NPT CONDUIT HOLE label

End View Dimensions:

- Overall diameter: 6.249 $+0.000$ -0.060
- Distance from centerline to shaft center: 4.998
- Distance from centerline to base: 5.000
- Base width: 2.740
- Base height: .860
- Overall width: 12.500

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
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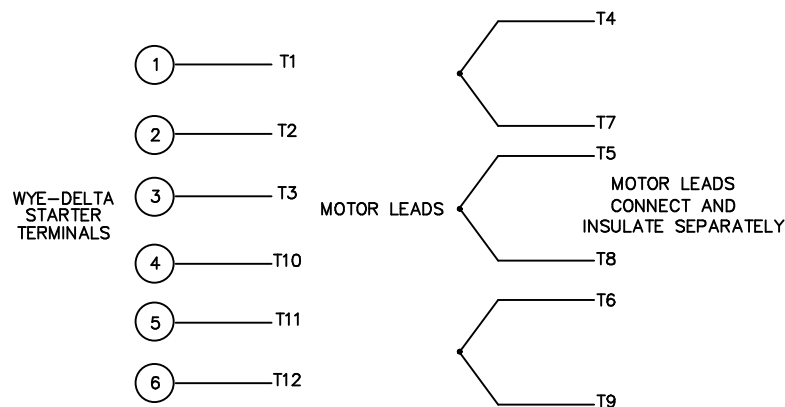
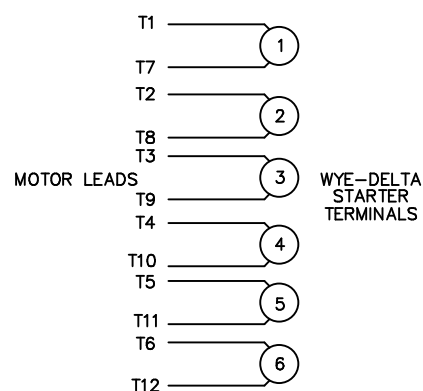
STACK:

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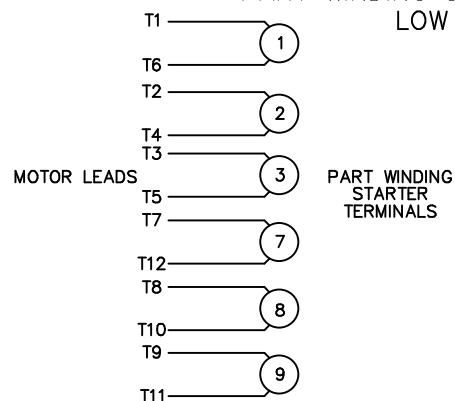
WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

LOW VOLTAGE CONNECTION

HIGH VOLTAGE CONNECTION



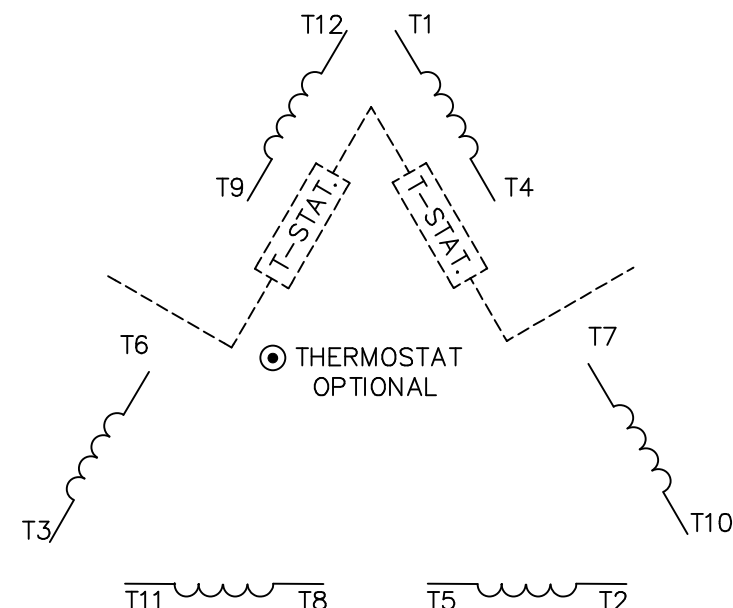
REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

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



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	

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 & DATE

CHK

ANG

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

Data Sheet

Date: 1/29/2018

170065.60



Data @ 460 V

Motor Load Data

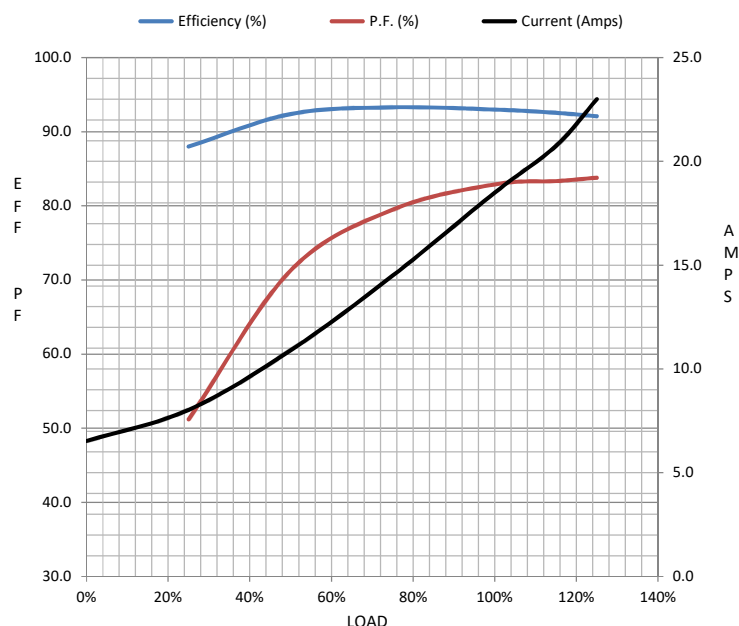
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	6.5	8.0	10.9	14.5	18.5	20.8	23.0	128	
Torque (ft-lb)	0.00	11.3	22.5	33.8	45.0	50.7	56.3	78.4	
RPM	1800	1794	1789	1783	1777	1,774	1769	0	
Efficiency (%)		88.0	92.4	93.3	93.0	92.6	92.1		
P.F. (%)	6.1	51.2	71.3	79.5	82.9	83.4	83.8	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1656	1777	1800
Current (Amps)	128	118	76.8	18.5	6.5
Torque (ft-lb)	78.4	64.1	124	45.0	0.00

Information Block

HP	15.0			
Sync. RPM	1800			
Frame	254			
Enclosure	DP			
Construction	TDC			
Voltage	208-230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	39 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	2.35 Lb-Ft²			
Ref Wdg	T12904022 DR			
Sound Pressure @ 1M	59 dBA			
VFD Rating	CONSTANT 4:1			
Outline Dwg	16955160			
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

