

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 254TTFNA7210
Catalog No: Y383
10,1800/900,TEFC,254T,3/60/460
Other Purpose



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REGAL[®]



Nameplate Specifications

Output HP	10,2.50 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	460 V
Current	12,4 A	Speed	1775,882 rpm
Service Factor	1.15	Phase	3
Efficiency	90.2 %	Duty	Continous
Insulation Class	F	Design Code	1VT
KVA Code	J	Frame	254T
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6309
Opp Drive End Bearing Size	6210	UL	Recognized
CSA	Y	CE	Y
IP Code	55		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4/8	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	T
Overall Length	23.65 in	Frame Length	10.50 in
Shaft Diameter	1.625 in	Shaft Extension	4.2 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	B-SS203002-1050	Connection Diagram	A-EE7322

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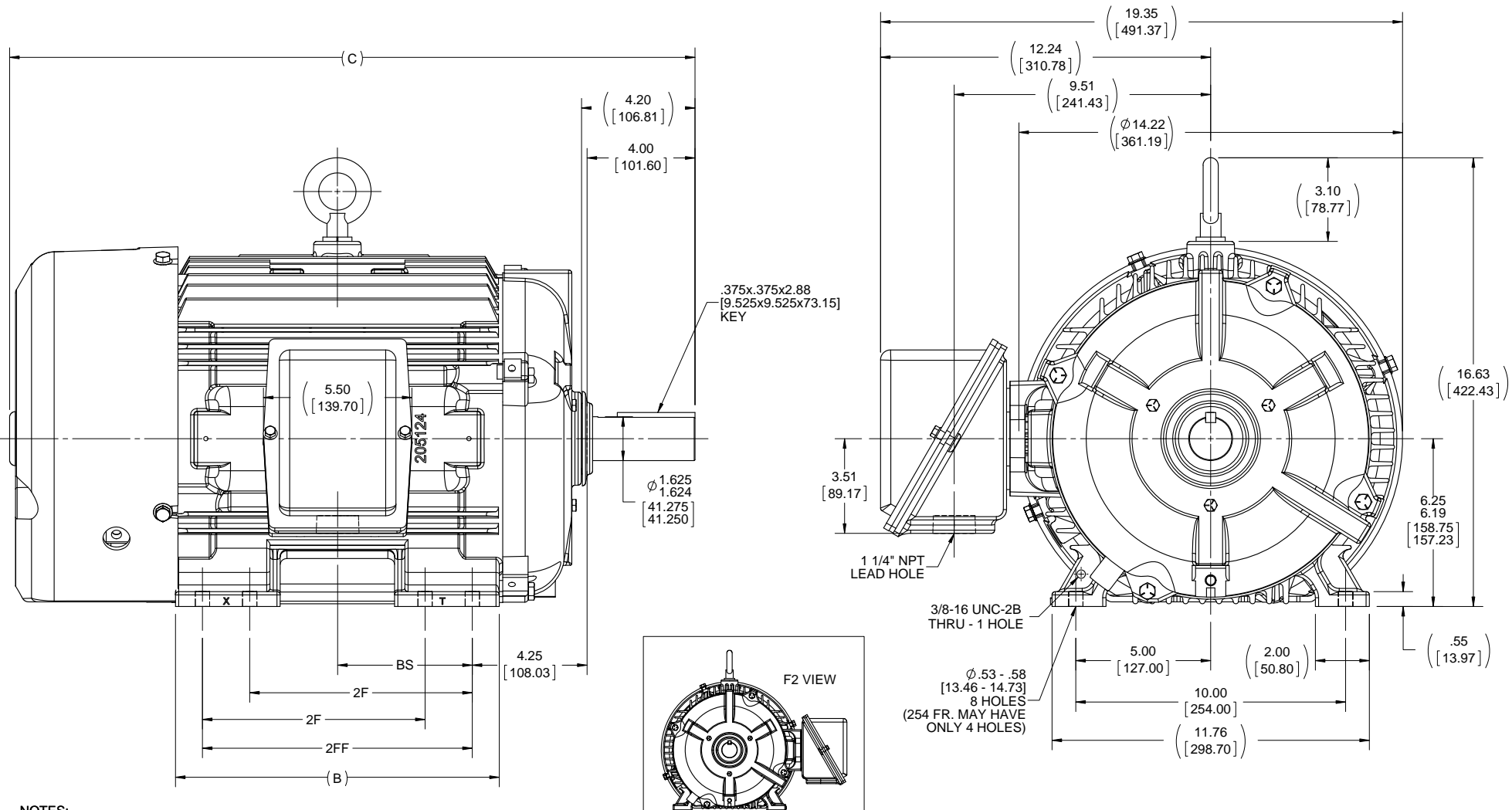
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B

B

A

A



- NOTES:
 1. CONDUIT BOX CAN BE ROTATED ON ITS AXIS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DRAWING REVISION E REVISION BY M GERTSCHEN DATE 11-17-2016
 ECO-0112972 APPROVED BY T VUE DATE 11-17-2016

ECO DESCRIPTION UPDATED TO CURRENT STANDARDS

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TOLERANCES UNLESS OTHERWISE SPECIFIED:
 DEC. INCH -mm ANGLE
 .X -0.1 [-2.5] ±7°-30'
 .XX ±0.03 [+0.76]
 .XXX ±0.005 [+0.127]
 .XXXX ±0.0005 [+0.0127]
 REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°
 CORNER FILLETS: R.02 [.51]
 MACHINED SURFACES: 200 5.1
 INCH/mm
 mm SHOWN IN [BRACKETS]

DRAWN BY TVUE

DATE 12-18-2013

APPROVED BY TBROWN

DATE 12-18-2013

REFERENCE

THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.

DESCRIPTION

OUTLINE

250T FR. - TEFC - BB - STD.

MATERIAL PROCESS/FINISH

SIZE B DRAWING NUMBER SS203002 SHEET 1 OF 1

1050	254T	23.65 [600.71]	10.25 [260.35]	---	8.25 [209.55]	4.25 [107.95]
1225	254/256T	25.40 [645.16]	12.00 [304.80]	8.25 [209.55]	10.00 [254.00]	5.00 [127.00]
DASH	FRAME	C	B	2F	2FF	BS

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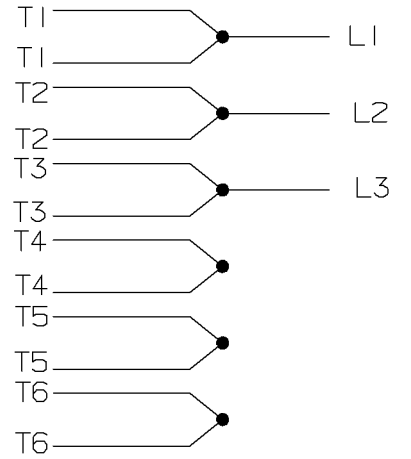
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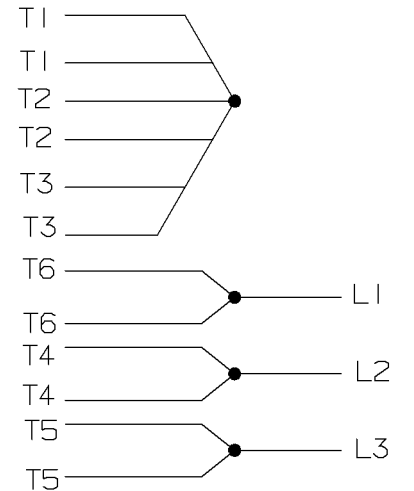
A- EE7322

FOR DUAL LEADS

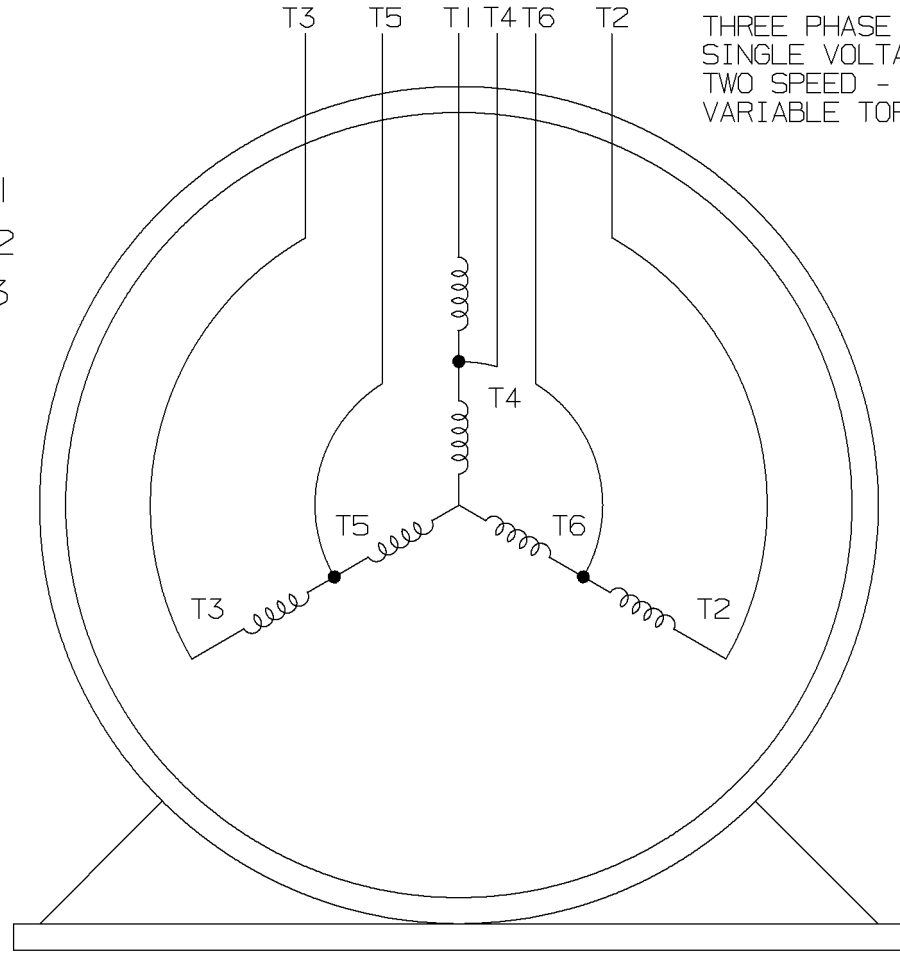
LOW SPEED



HIGH SPEED

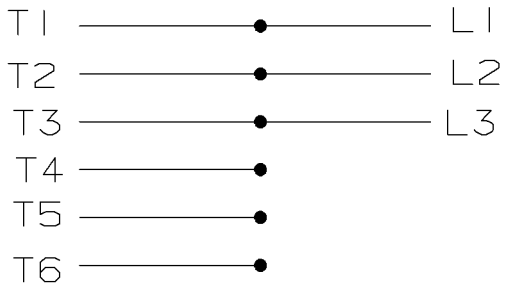


THREE PHASE MOTOR
SINGLE VOLTAGE
TWO SPEED - SGL. WDG.
VARIABLE TORQUE

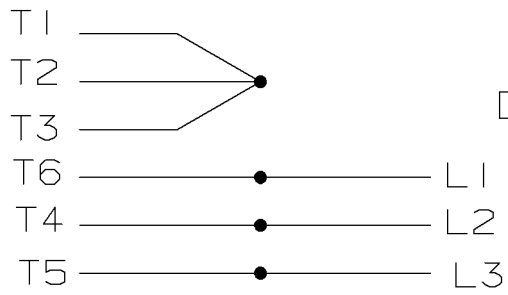


VIEW OF TERMINAL END

LOW SPEED



HIGH SPEED



T612C
T48B

				✓ MAX. SURFACE ROUGHNESS UNLESS NOTED OTHERWISE	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX± XXX±.005 XXXX±.0005 ANGLES±		
				MATL SPEC			DRAWN BY PGK 12-26-1996
				FINISH	MARATHON ELECTRIC		CHKD BY ML 01-07-1997
7	01-08-1997	REDRAWN ON CADD	CN 24000-27	PGK	REFERENCE DRW.	WAUSAU, WISCONSIN 54401	APPD BY TB 01-07-1997
REV	DATE	CHANGE		NAME	PART NAME CONNECTION DIAGRAM 3Ø - SINGLE VOLTAGE - 2 SPEED	DRWG NO A- EE7322	

SHOP BOOK PURCHASED DISTRIBUTION - WA - LB - WP - LM - BR CADD FILE NO. EE7322

CERTIFICATION DATA SHEET

Model#: 254TTFNA7210 AB **WINDING#:** 254(4-8)45 NONE 7
CONN. DIAGRAM: A-EE7322 **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: B-SS203002-1050

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&2 1/2	7.5&1.87	900	1775&882	254T	TEFC	J	1VT

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/60	460	12&4	ACROSS THE LINE	CONTINUOUS	F3	1.15/1.15	40	3300

FULL LOAD EFF:	3/4 LOAD EFF:	1/2 LOAD EFF:	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
90.2&86.5	85.5	82.5			
FULL LOAD PF:	3/4 LOAD PF:	1/2 LOAD PF:			
88&67.5	60.5	49	83.8	SQ CAGE IND RUN	2.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
15 LB-FT	17.5	23 LB-FT 153	37.5 LB-FT 250	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
54 dBA	64 dBA	2.5 LB-FT^2	- LB-FT^2	- SEC.	-	350 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6309	6210						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
- FT-LB NONE V NONE Hz

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