

PRODUCT INFORMATION PACKET

Model No: 254TTDX7278

Catalog No: Y456

Kiln Duty Motor, 7.50 & 3.33 HP, 3 Ph, 60 & 60 Hz, 200-230 & 200-230 V, 1800 & 1800 RPM,
254T Frame, DP



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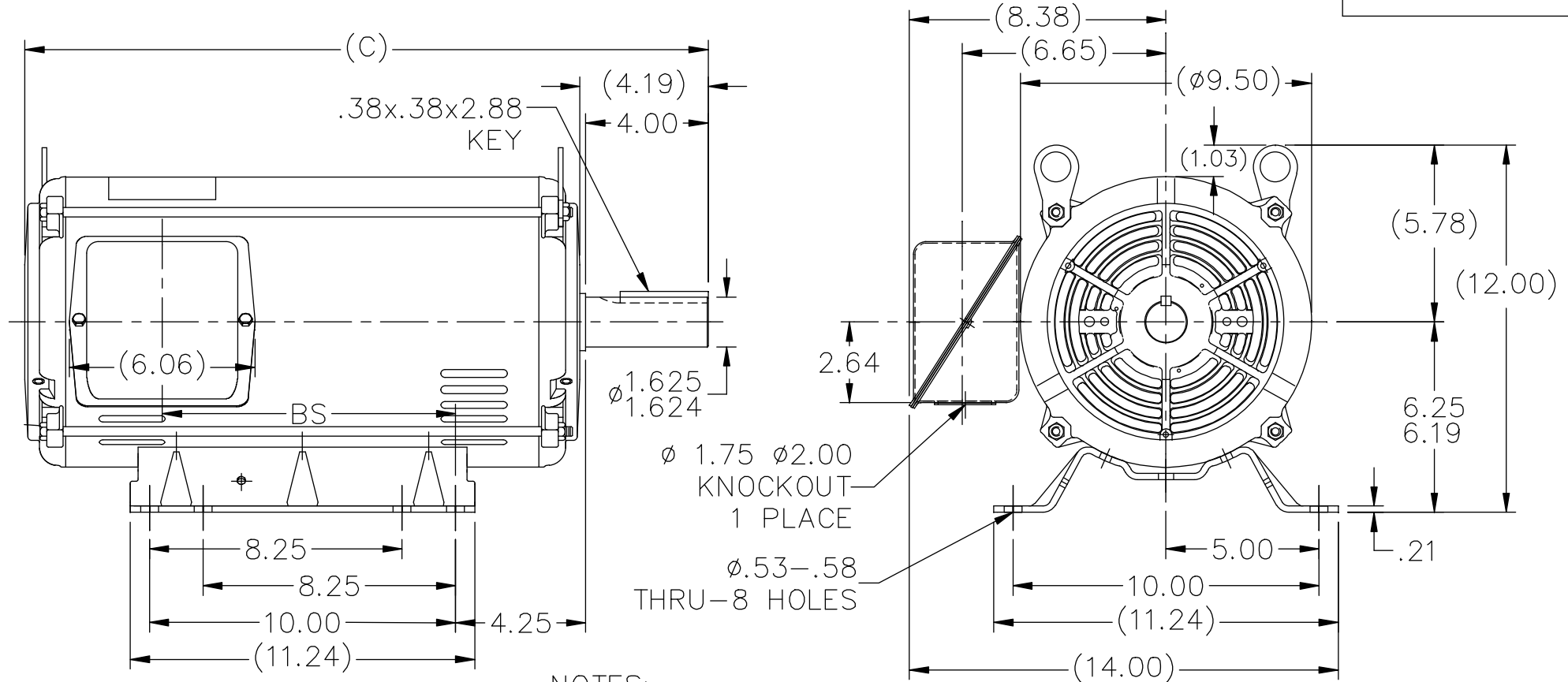
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Nameplate Specifications

Phase	3	Output HP	7.50 & 3.33 Hp
Output KW	5.6 & 2.5 kW	Voltage	200-230 & 200-230 V
Speed	1775 & 1182 rpm	Service Factor	1.15 & 1.15
Frame	254T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	87.5 & 84 %
Ambient Temperature	40 °C	Frequency	60 & 60 Hz
Current	20.8-18.4 & 11-10.2 A	Power Factor	86.5
Duty	Continuous	Insulation Class	B
Design Code	2VT	KVA Code	K
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	2		

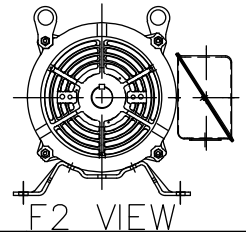
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4//6	Rotation	Reversible
Resistance Main	1.6 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	22.32 in
Frame Length	15.45 in	Shaft Diameter	1.625 in
Shaft Extension	4.19 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	A-SS86503-1545	Connection Drawing	A-EE7317



NOTES:

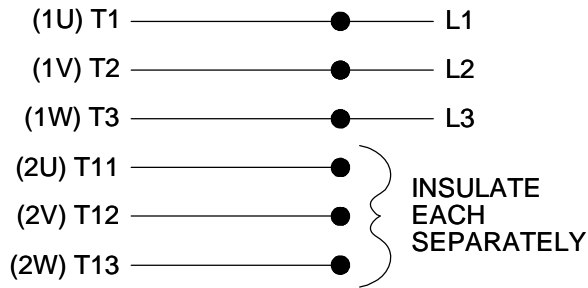
1. NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.
2. BOX CAN BE MOUNTED IN 90° STEPS.
3. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°. (EXCEPT AS NOTED.)
4. F2 MOUNT -USES 2ND HOLE ON 1370 FRAME.



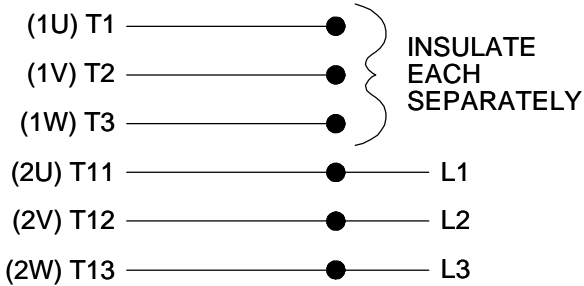
DASH	FR.	C	BS	MOUNTING
1370	254T	20.57	7.68	F1 OR F2
1545	254T/256T	22.32	9.43	F1 OR F2

NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV	
8	ADDED F2 VIEW	UD 11/13/13	GR	TOLERANCES UNLESS SPECIFIED			DRAWN SMC 04-22-1993	
7	UPDATED DRAWING	TJW 04/27/2007		DEC.	INCHES		CHK MOL 04-23-1993	
6	REDRAWN IN AUTOCAD	TAT 05-19-2005	ML	.X	±.1	APPD DRN 09-13-1993	SCALE 1=5	
5	UPDATED CONDUIT BOX CN 28427	TJB 01-31-2000		.XX	±.03	TITLE OUTLINE	REF	
4	ADDED NOTE #4 FOR F2 MOUNT CN 24000-581	MH 06-10-1997		.XXX	±.005	250 FR. - BB - DR.PR.	FMF	
3	DASH 1545 WAS FOR 256T FR. ONLY CN 18683	KL 09-12-1994		.XXXX	±.0005	MAT'L.	PREV	
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 ss86503		SIZE A	DRAWING NO. SS86503	PAGE OF 8
			DIST LB					REV. 8

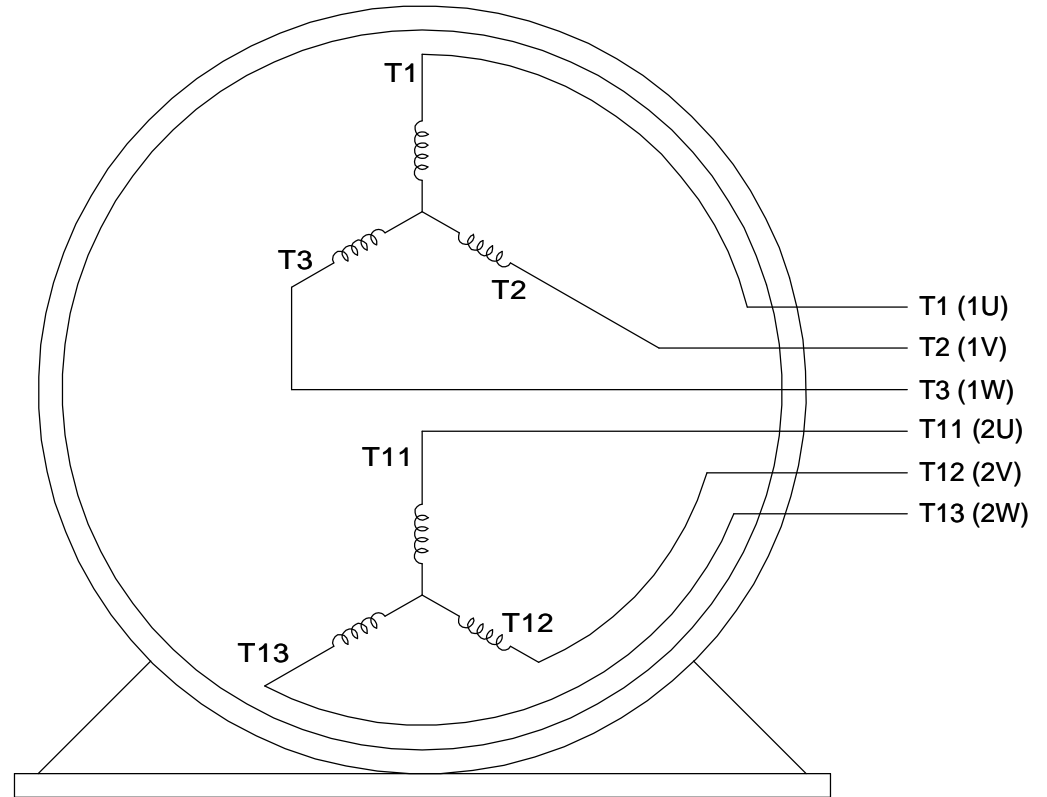
LOW SPEED



HIGHSPEED



**THREE PHASE, SINGLE VOLT, 6 LEAD
2 SPEED REVERSIBLE MOTOR**

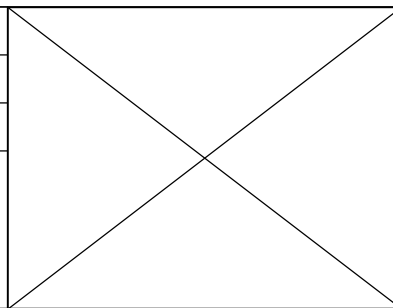


VIEW OF TERMINAL END

TO REVERSE ROTATION ON
EITHER SPEED: INTERCHANGE
ANY 2 LEADS ON THE
WINDING IN USE.

DRAWING REVISION C	REVISION BY JJB	DATE 10-25-2017
ECO ECO-0132917	APPROVED BY TLB	DATE 10-30-2017

ECO DESCRIPTION
REVISED PER ECO & UPDATED TO STANDARDS
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DRAWN BY LZ
DATE 01-05-1994
APPROVED BY GK
DATE 01-17-1994
REFERENCE
THIRD ANGLE PROJECTION

Regal Beloit America, Inc.		
		DESCRIPTION CONN DIAGRAM-INTERNAL 3 PHASE - SINGLE - 2 SPEED REVERSIBLE
MATERIAL	PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7317	SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 254TTDX7278 AB
CONN. DIAGRAM: A-EE7317
OUTLINE: A-SS86503-1545

WINDING#: 215(4-6)35 NONE 1
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&3 1/3	5.6&2.48	1200	1775&1182	254T	DP	K	2VT

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/60	200-230	20.8-18.4&11-10.2	ACROSS THE LINE	CONTINUOUS	B3	1.15/1.15	40	3300

FULL LOAD EFF: 87.5&84	3/4 LOAD EFF: 83	1/2 LOAD EFF: 79.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86.5&73	3/4 LOAD PF: 64.5	1/2 LOAD PF: 51.5	80.8	SQ CAGE IND RUN	6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
14.5 LB-FT	76	42 LB-FT 290	52 LB-FT 359	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
64 dBA	74 dBA	1.4 LB-FT^2	- LB-FT^2	- SEC.	-	- LBS.

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

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

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)	ROLLED STEEL
6309	6208						

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

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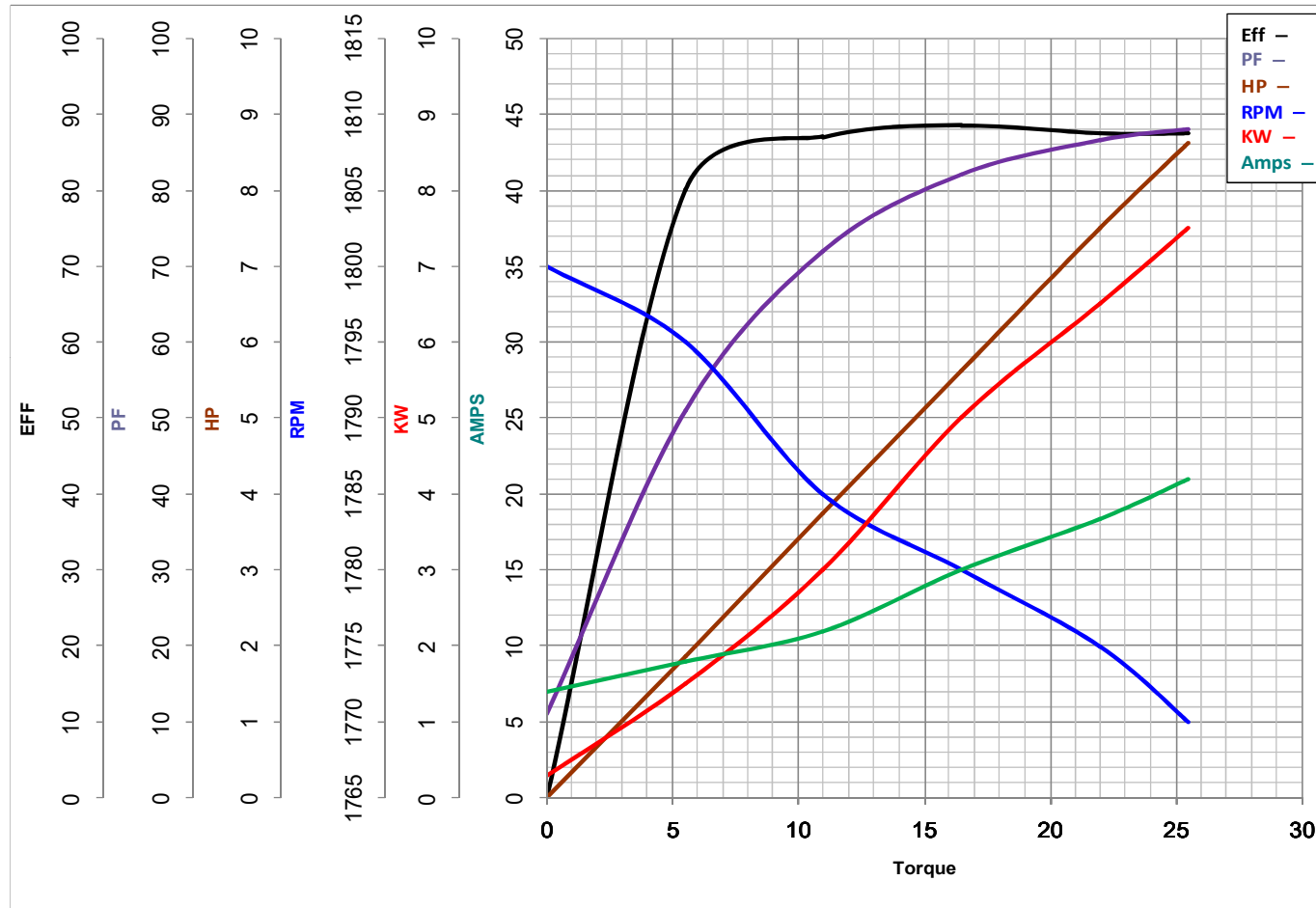
INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

DATE: 06/23/2017 03:41:24 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.



MARATHON ELECTRIC CORPORATION
TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer _____ Curve at 230 Volts HP 7.5&3.33 PHASE 3
 Model No 254TTDX7278 60 HZ
7.5 HP VOLTS 200-230&200-230
 Catalog No Y456 HZ 60&60 RPM 1775&1182



Torque in LB-FT

FL TORQUE	<u>22</u>	LB-FT	FL AMPS	<u>20.8-18.4</u>
BD TORQUE	<u>78.0</u>	LB-FT	PU TORQUE	<u>54.0</u> LB-FT
LR TORQUE	<u>60</u>	LB-FT	LR AMPS	<u>160</u>
WINDING	<u>215(4-6)35-1</u>		Date	<u>1/17/2019</u>

EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
100 East Randolph St.
Wausau, WI 54401

and the authorized representative
established within the Community:

Marathon Electric UK
6F Thistleton Road Ind. Estate
Market Overton
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 254TTDX7278

(Model No. may contain prefix and/or suffix characters)

Catalog No : Y456

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

Created on 09/01/2022

CE 22