

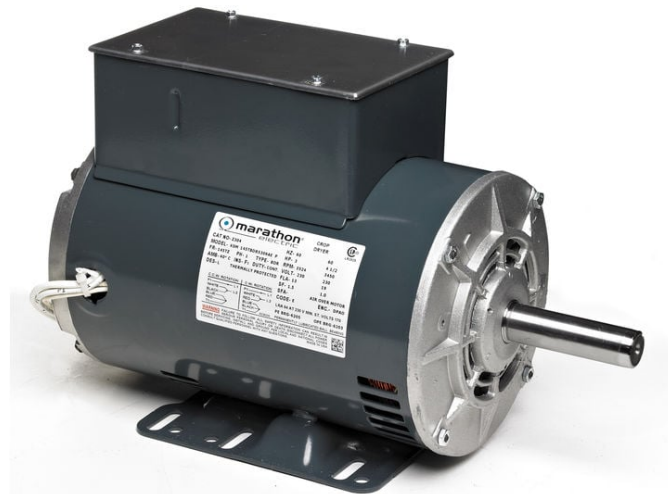
PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 256TBDX17035

Catalog No: Z319

Crop Dryer Motor, 16 HP, 1 Ph, 60 Hz, 230 V, 1800 RPM, 256TZ Frame, DP



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RegalRexnord

Nameplate Specifications

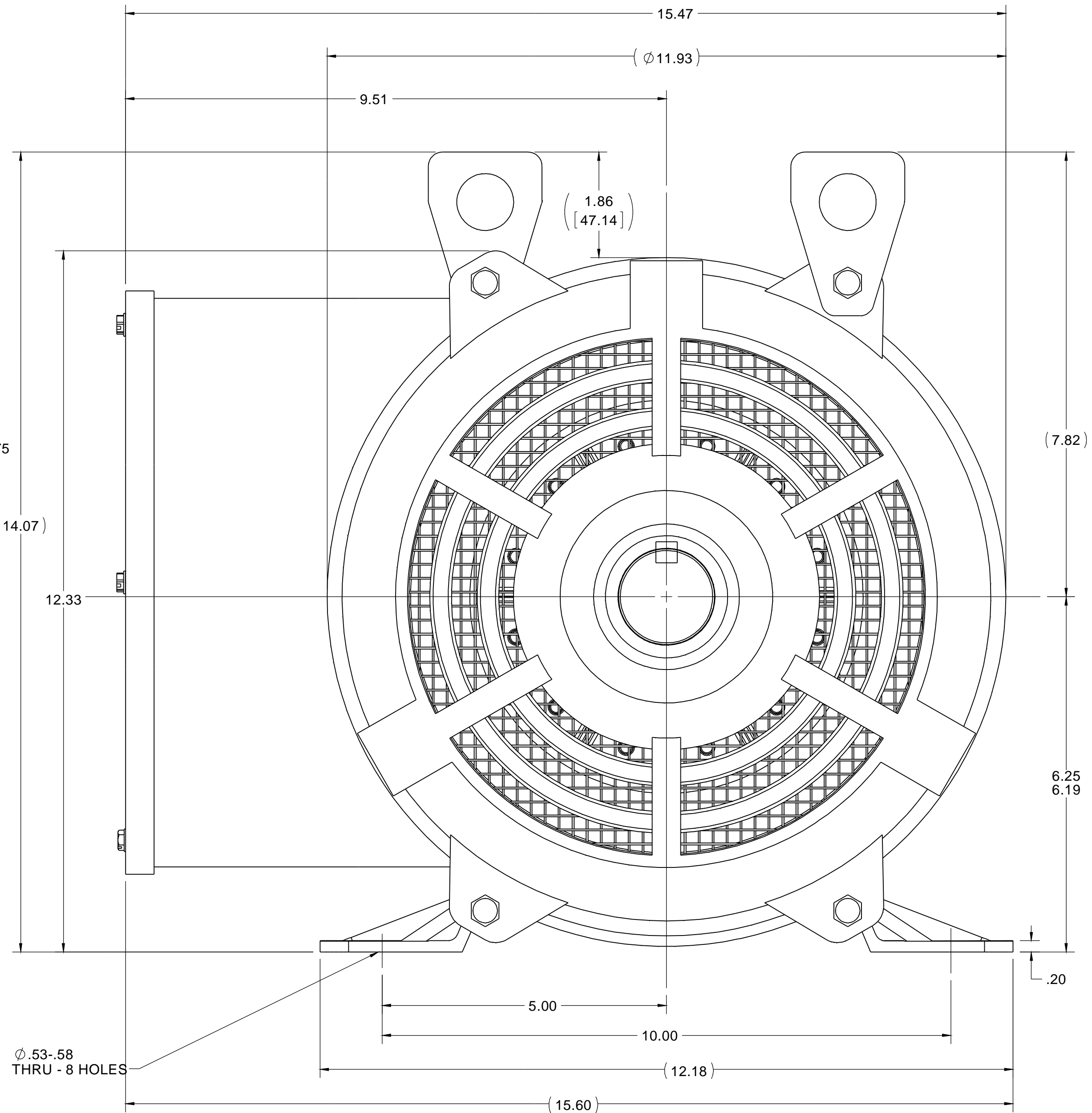
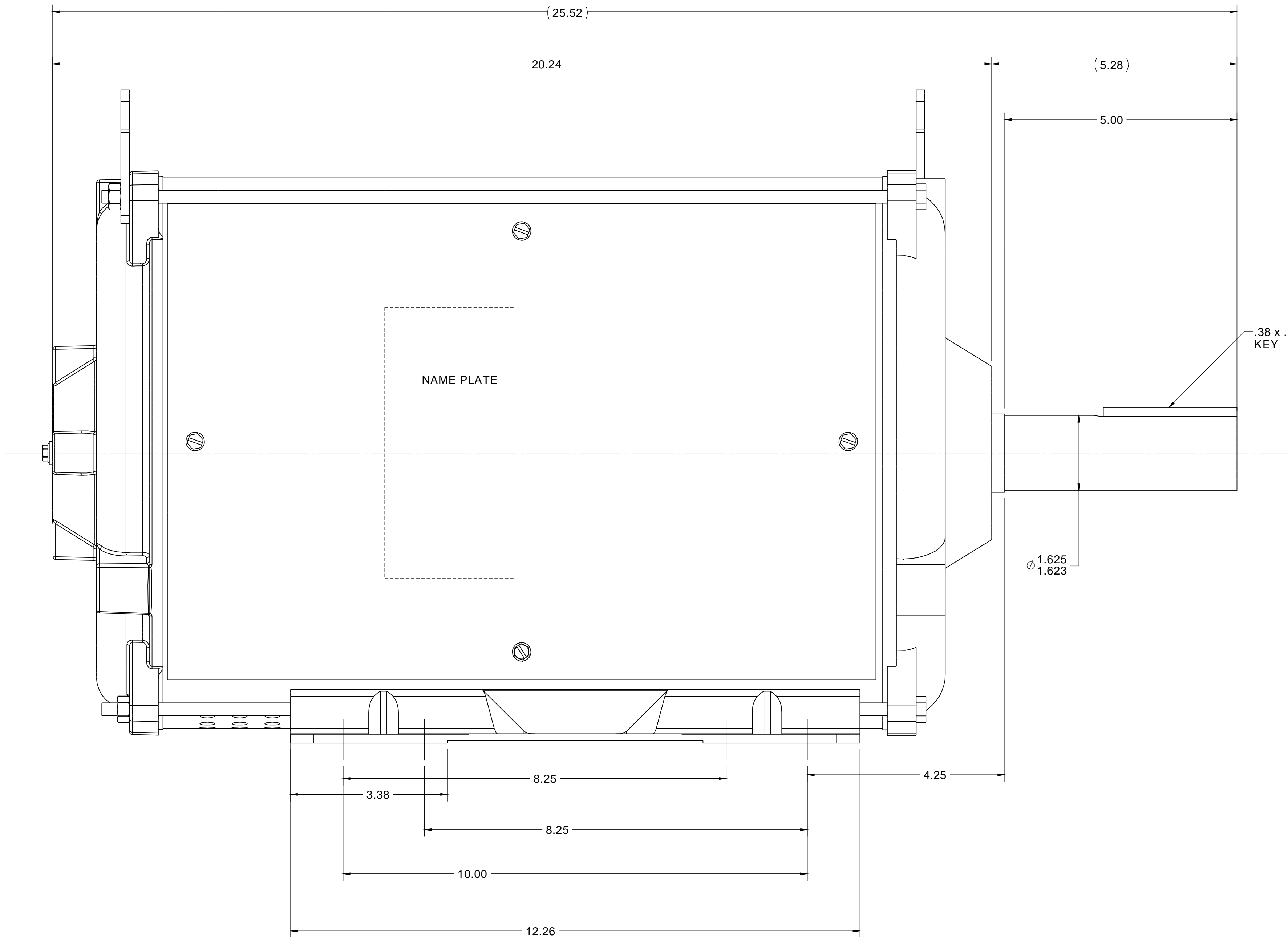
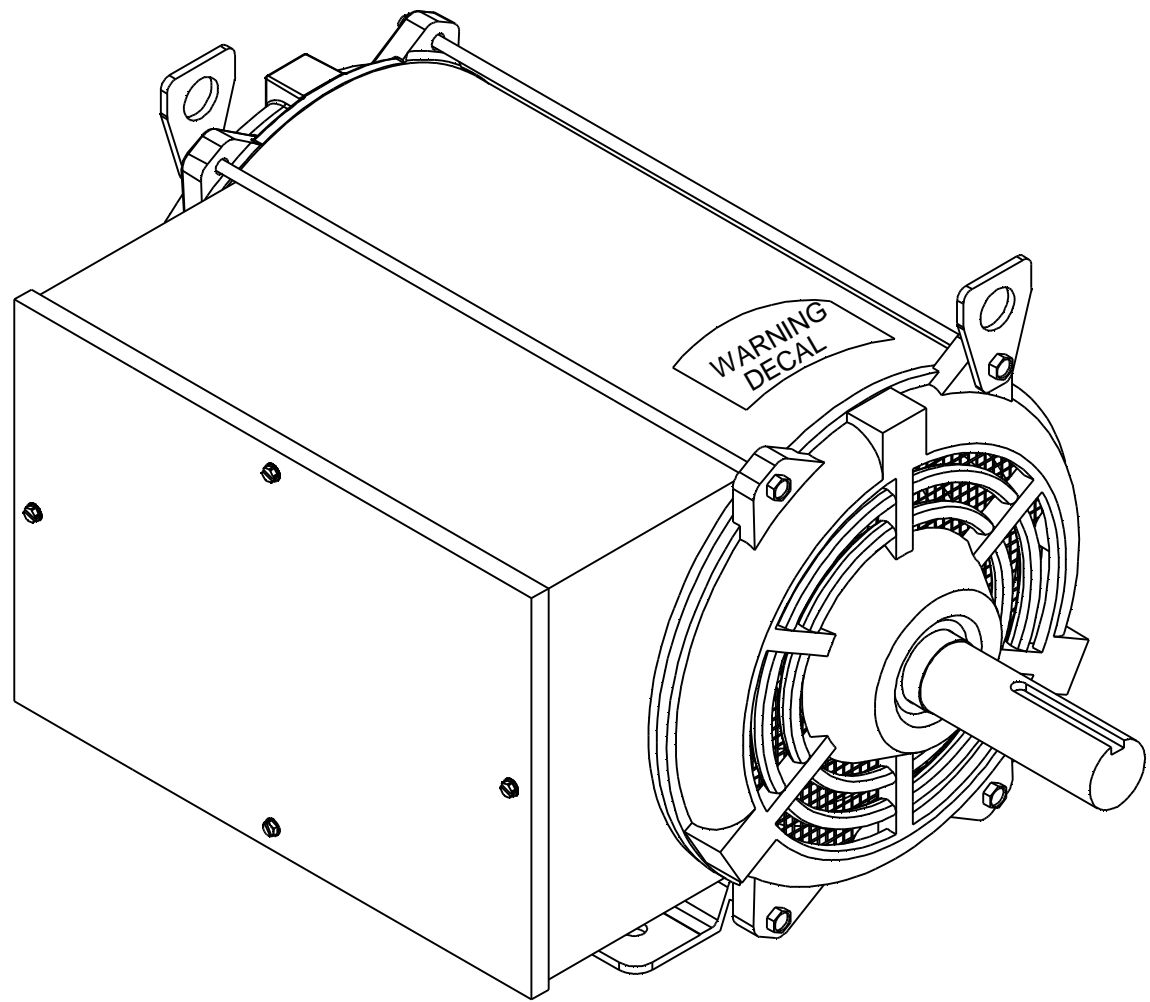
Output HP	16 Hp	Output KW	11.9 kW
Frequency	60 Hz	Voltage	230 V
Current	61.0 A	Speed	1760 rpm
Service Factor	1.15	Phase	1
Efficiency	91 %	Power Factor	93.7
Duty	Continuous	Insulation Class	F
Design Code	NO DESIGN CODE	KVA Code	E
Frame	256TZ	Enclosure	Drip Proof
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	23
Number of Speeds	1		

Technical Specifications

Electrical Type	Capacitor Start Capacitor Run	Starting Method	Across The Line
Poles	4	Rotation	Selective Counterclockwise
Resistance Main	.089 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Single Special Extension	Overall Length	25.52 in
Frame Length	15.50 in	Shaft Diameter	1.625 in
Shaft Extension	5 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	D0000503-001	Outline Drawing	2521206-001

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- NOTES:
- 1 - SPECIAL CONDUIT BOX MOUNTING.
 - 2 - MOTOR VENTILATION: AIR INTAKE THROUGH OPENINGS IN THE FACE OF EACH BRACKET AND EXHAUSTED THROUGH THE VENT SLOTS ON EACH END OF THE SHELL.
 - 3 - NOT FIELD CONVERTABLE TO F2
 - 4- MOTOR NAMEPLATE MUST HAVE WIRING DIAGRAM
 - 5- MOTOR NAMEPLATE TO BE LOCATED OPOSITE OF THE CAPACITOR BOX

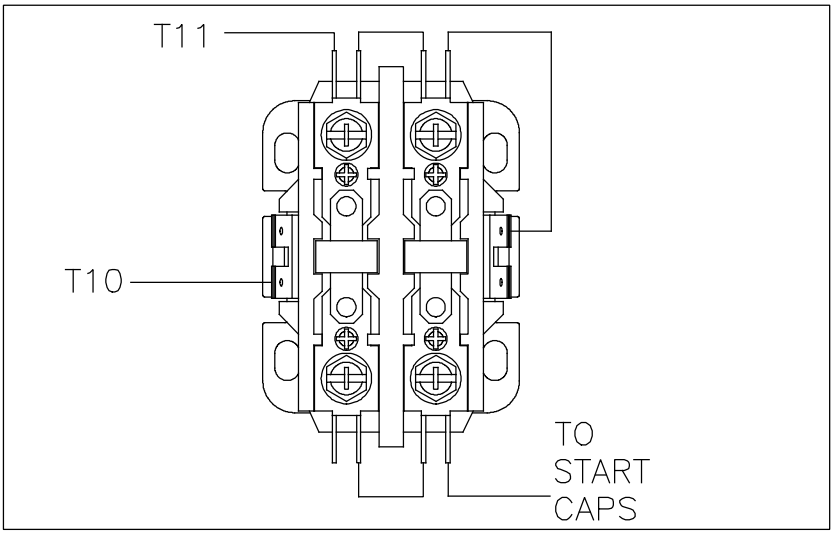
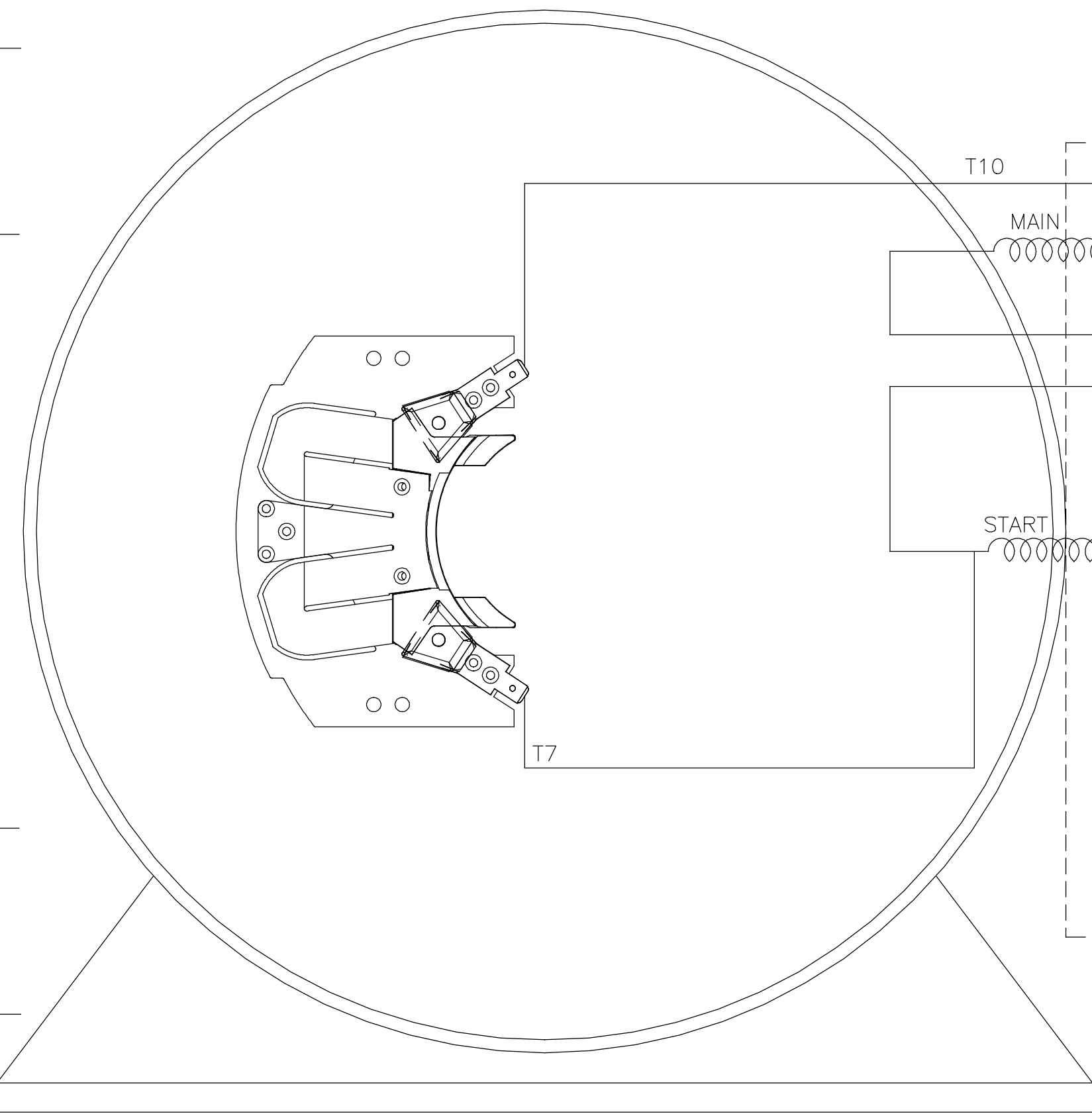
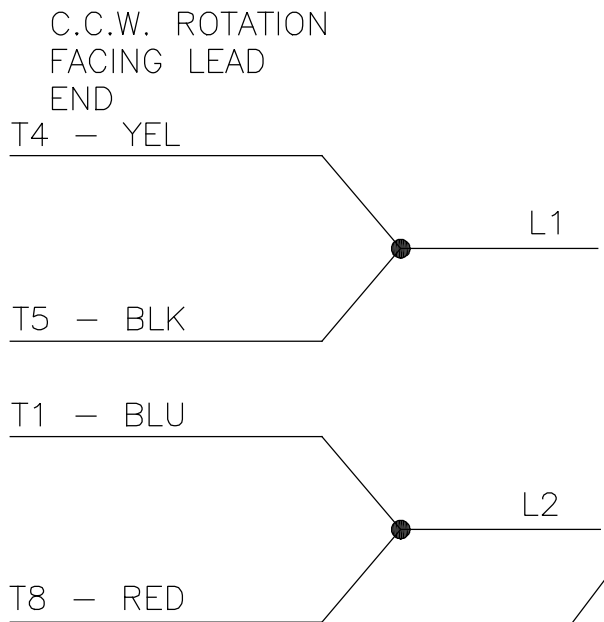
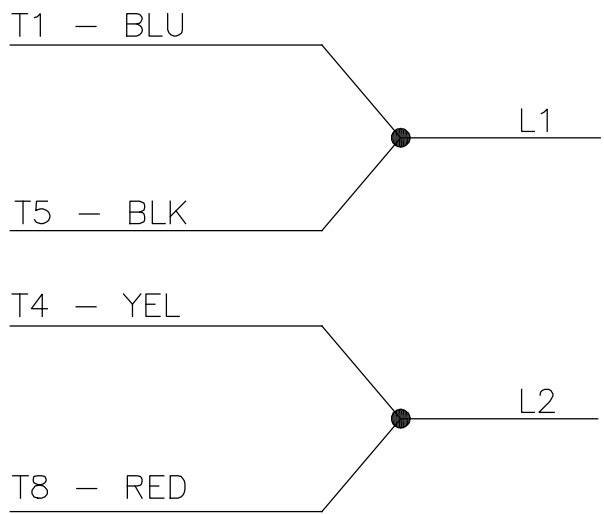


DRAWING REVISION E	REVISION BY SAJID	DATE 06/12/2015	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE X .01 [-0.25] 12.5 XX .01 [-0.25] 12.5 XXX .0005 [-0.127] 12.5 XXXX .0005 [-0.127] 12.5 REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] CORNER FILLETS: .02 [.51] MACHINED SURFACES: 125 3.2 mm SHOWN IN [BRACKETS]	DRAWN BY Z. BORTS	DATE 06/11/2014	DESCRIPTION MOTOR ASSY OUTLINE
ECO-0079583	APPROVED BY SR	DATE 06/12/2015	REFERENCE	THIRD ANGLE PROJECTION	SIZE D	DRAWING NUMBER 2521206-001
ECO DESCRIPTION UPDATED DIMENSIONS AND VIEW COPYRIGHT REGAL BELLOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELLOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED TO HAVE AGREED TO ACCEPT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.			MATERIAL PROCESS/FINISH			

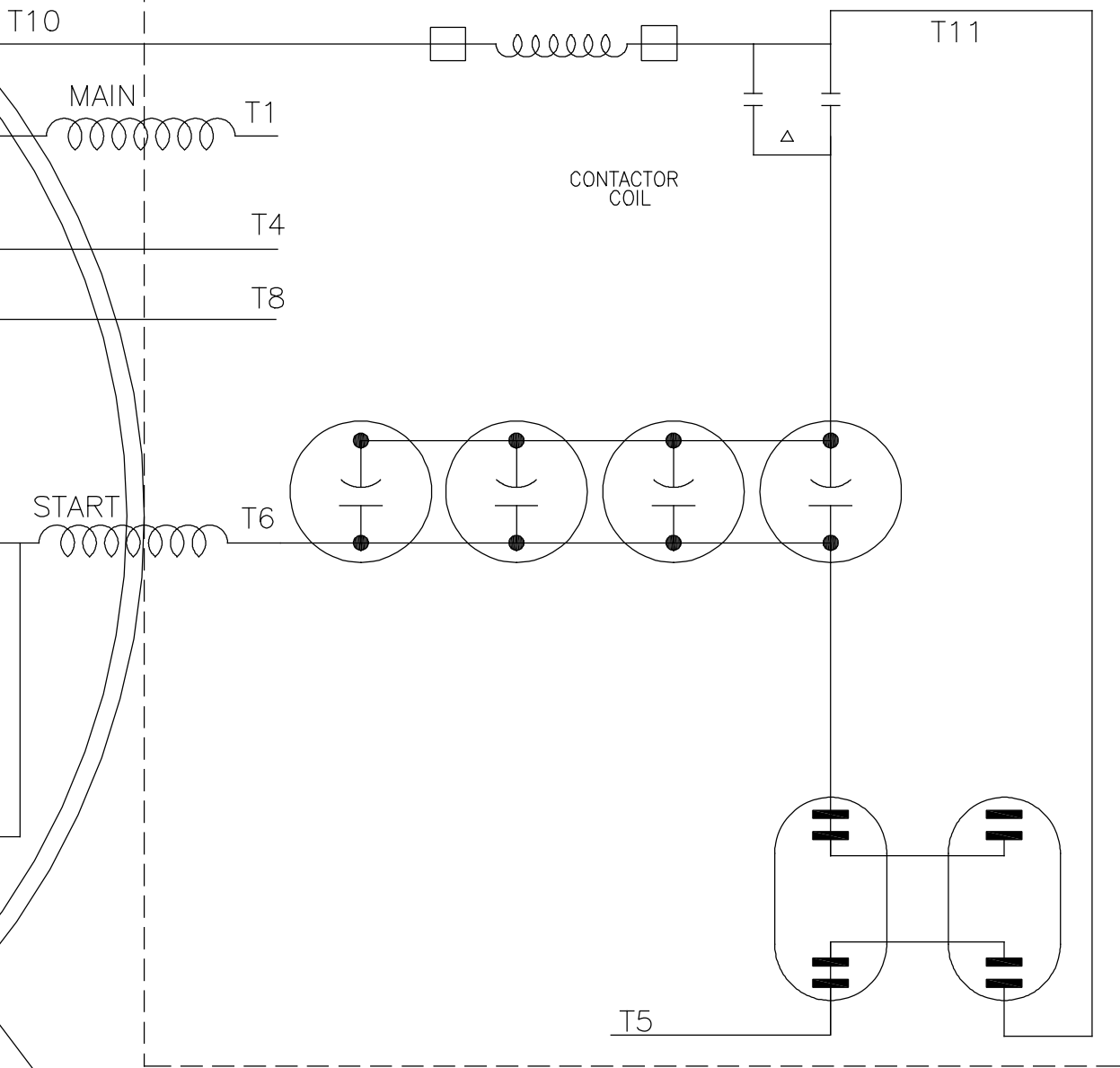
REV	ECO	REV BY	DATE	APPD	DATE
G	ECO-0135426	MVG	11/28/2017	MSD	11/28/2017

C.W. ROTATION
FACING LEAD
END

SINGLE VOLTAGE — CAPACITOR START — CAPACITOR RUN
FIXED ROTATION




△△ SCREW SIDE
△ SPADE SIDE



VIEW OF TERMINAL END

CONNECT:
START CAPACITORS
IN PARALLEL.
RUN CAPACITORS
IN PARALLEL.

GEOMETRIC CHARACTERISTICS & SYMBOLS ∇ FLATNESS — STRAIGHTNESS ∠ ANGULARITY ⊥ PERPENDICULARITY (SQUARENESS) // PARALLELISM ○ ROUNDNESS (CIRCULARITY) ⊘ CYLINDRICITY △ PROFILE OF ANY SURFACE ⌒ PROFILE OF ANY LINE ↗ RUNOUT ⊕ TRUE POSITION ⊙ CONCENTRICITY = SYMMETRY ASME Y14.5M 1994	UNLESS OTHERWISE SPECIFIED DIM. TOLERANCES ARE AS FOLLOWS: X XX XXX XXXX INCH ±.1 ±.02 ±.005 ±.0005 mm ±0.5 ±0.13 ±0.013 ANG. ±.50 DEG REMOVE BURRS & BREAK SHARP EDGES: INCH .003-.015 mm 0.1-0.4 CORNER FILLETS TO: INCH .020 mm 0.5 MACHINE SURFACES: INCH .125 mm 3.2 METRIC DIMS. SHOWN IN [BRACKETS]	DR BY: H.ZHANG	02/26/2014	<div>REGAL REGAL-BELOIT CORPORATION</div>		
		APPD:		DESCRIPTION Connection Diagram 180-210 Switch		
		THIRD ANGLE PROJECTION		EDS DATE 11-11-2011 FORMAT REV H	SIZE C DWG NO D0000503-001	
		CONFIDENTIAL: THIS DRAWING AND ITS INFORMATION ARE THE EXCLUSIVE AND CONFIDENTIAL PROPERTY OF REGAL-BELOIT CORPORATION AND ARE NOT TO BE DISCLOSED, DUPLICATED, DISTRIBUTED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF REGAL-BELOIT CORPORATION. -ALL RIGHTS RESERVED.			SCALE NONE SHEET 1	

CERTIFICATION DATA SHEET

Model#: 256TBDX17035 AA

WINDING#: BG11402 NONE 1

CONN. DIAGRAM: D0000503-001

ASSEMBLY: F1 ONLY

OUTLINE: 2521206

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
16	11.9	1800	1760	256TZ	DP	E	NO DESIGN CODE

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
1	60	230	61	ACROSS THE LINE	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 91	3/4 LOAD EFF: 90.6	1/2 LOAD EFF: 90.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 93.7	3/4 LOAD PF: 94.6	1/2 LOAD PF: 93.8	88.5	CAP START CAP RUN	9.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
47.85 LB-FT	335	150 LB-FT 313	102 LB-FT 213	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0 LB-FT^2	150 LB-FT^2	10 SEC.	3	0 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	RODENT	BLUE - MARATHON

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6309	6206	POLYREX EM	SGL SPL EXT	1.625 x 5.00 IN SEK	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

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

* N O T E S *	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 04:38:21 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 16

 PHASE 1

 Model No 256TBDX17035
60

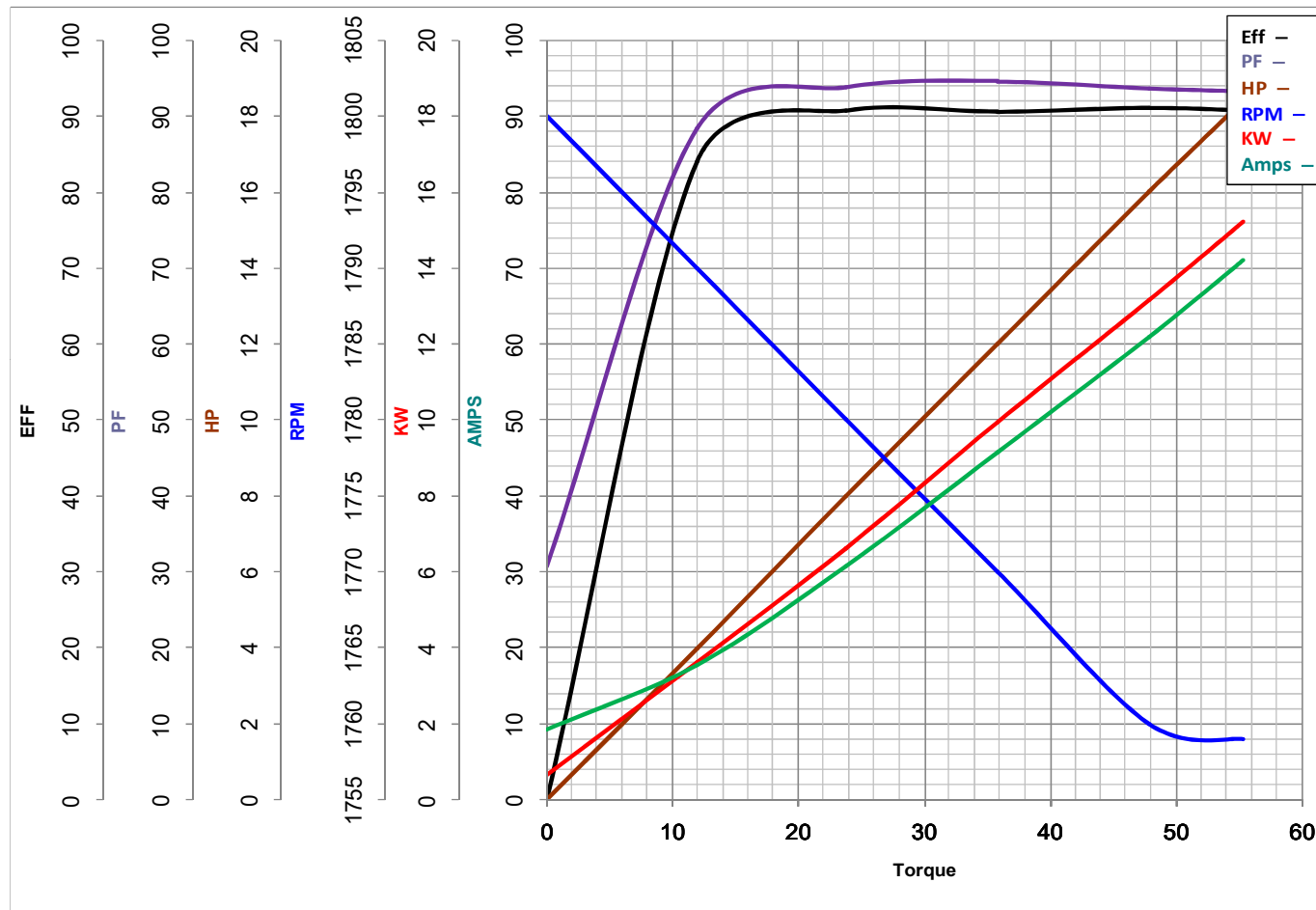
HZ

 VOLTS 230
16

HP

 Catalog No Z319

 HZ 60

 RPM 1760


Torque in Lb.Ft

 FL TORQUE 47.85 Lb.Ft

 BD TORQUE 102.0 Lb.Ft

 LR TORQUE 150 Lb.Ft

 FL AMPS 61

 PU TORQUE 68.0 Lb.Ft

 LR AMPS 335

WINDING BG11402-1

Date 1/17/2019

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 : 256TBDX17035

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

Catalog No : Z319

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