

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 256VTDC6001

Catalog No: V118A

Vertical Pump Motor, 25 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
256TPV Frame, WPI



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Nameplate Specifications

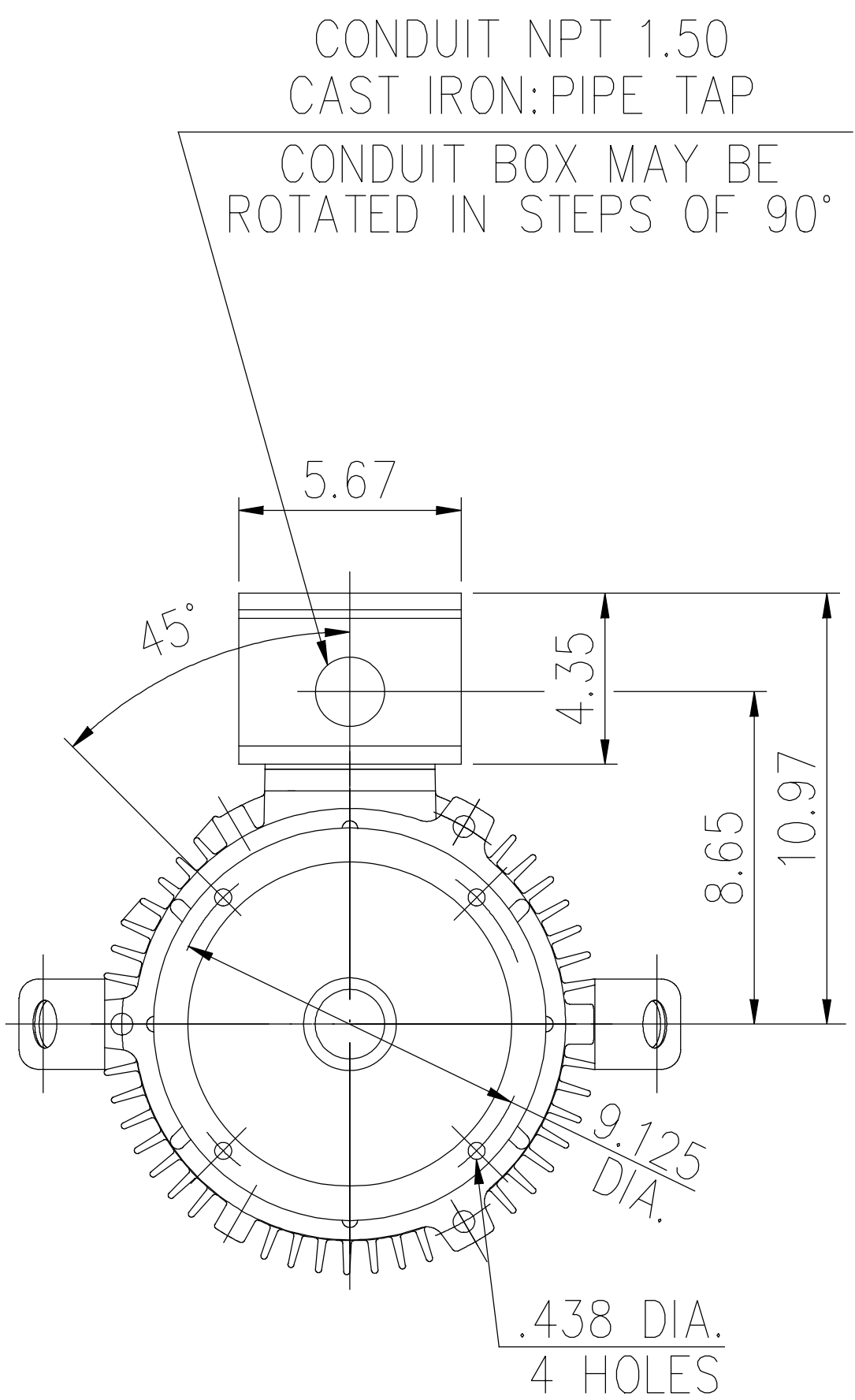
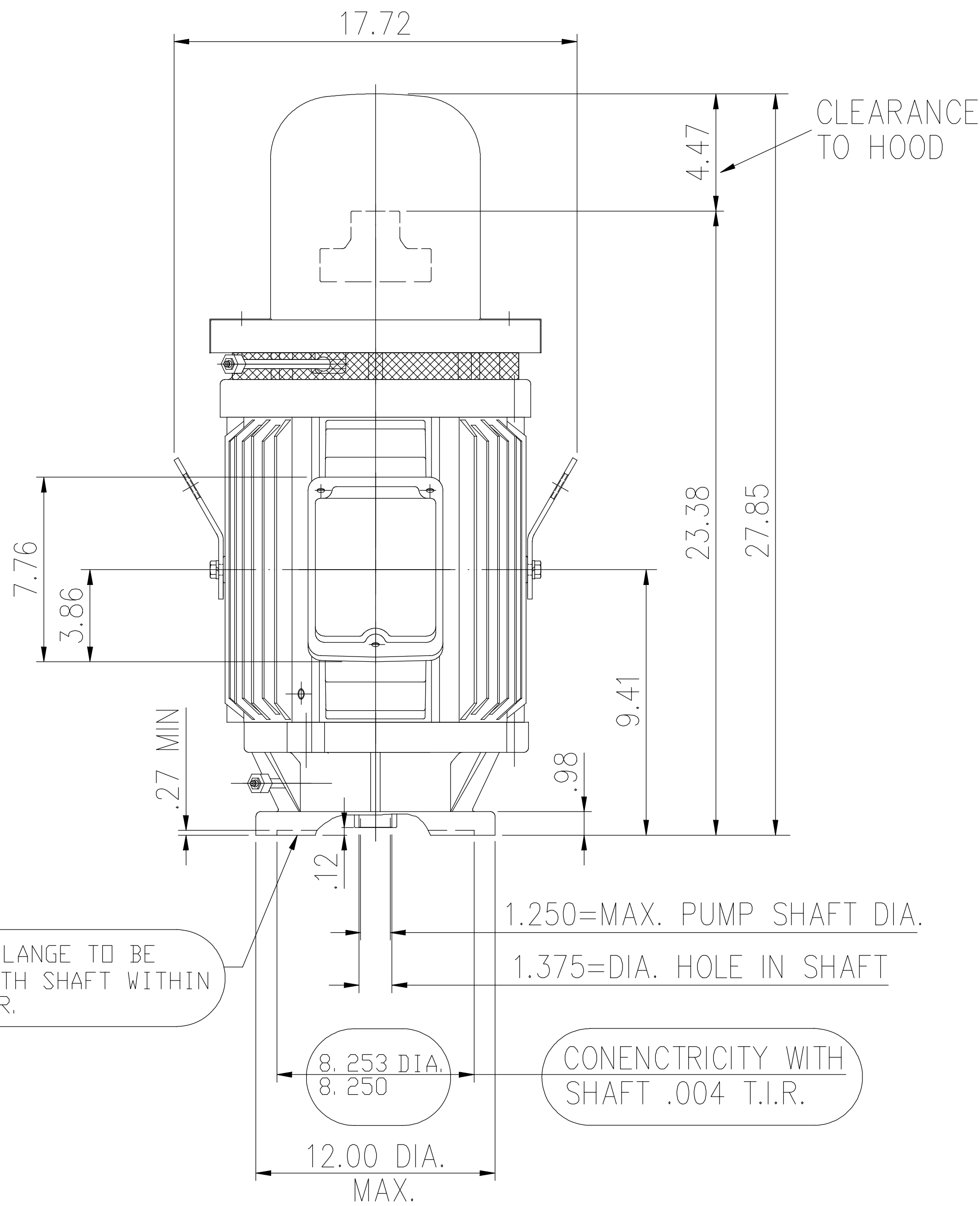
Phase	3	Output HP	25 & 20 Hp
Output KW	18.7 & 14.9 kW	Voltage	230/460 & 190/380 V
Speed	3520 & 2930 rpm	Service Factor	1.15 & 1.15
Frame	256TPV	Enclosure	Weather Protected 1
Thermal Protection	No Protection	Efficiency	91.7 & 90.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	58/29 & 58/28.9 A	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6309	Opp Drive End Bearing Size	7311B
UL	Recognized	CSA	Y
CE	Y	IP Code	23
Number of Speeds	1		

Technical Specifications

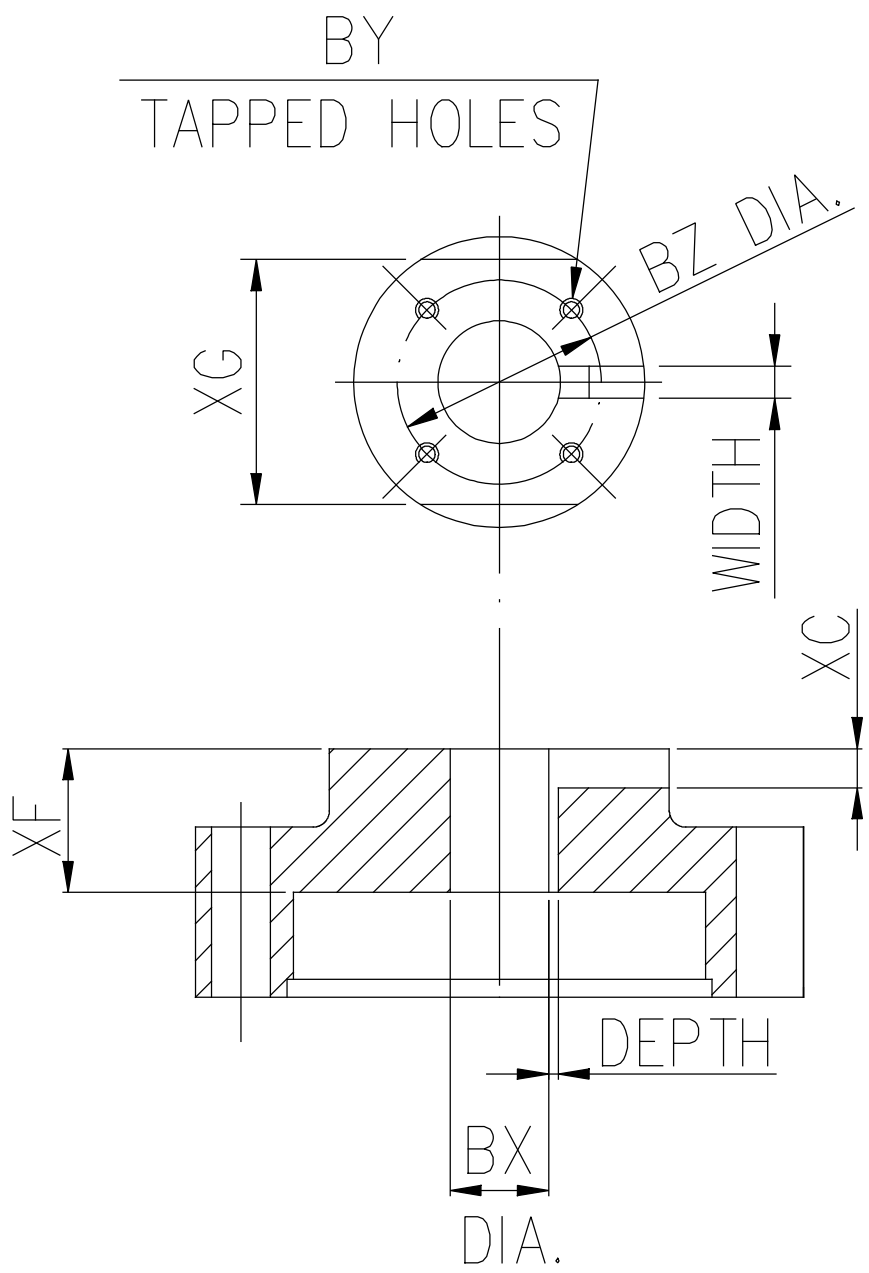
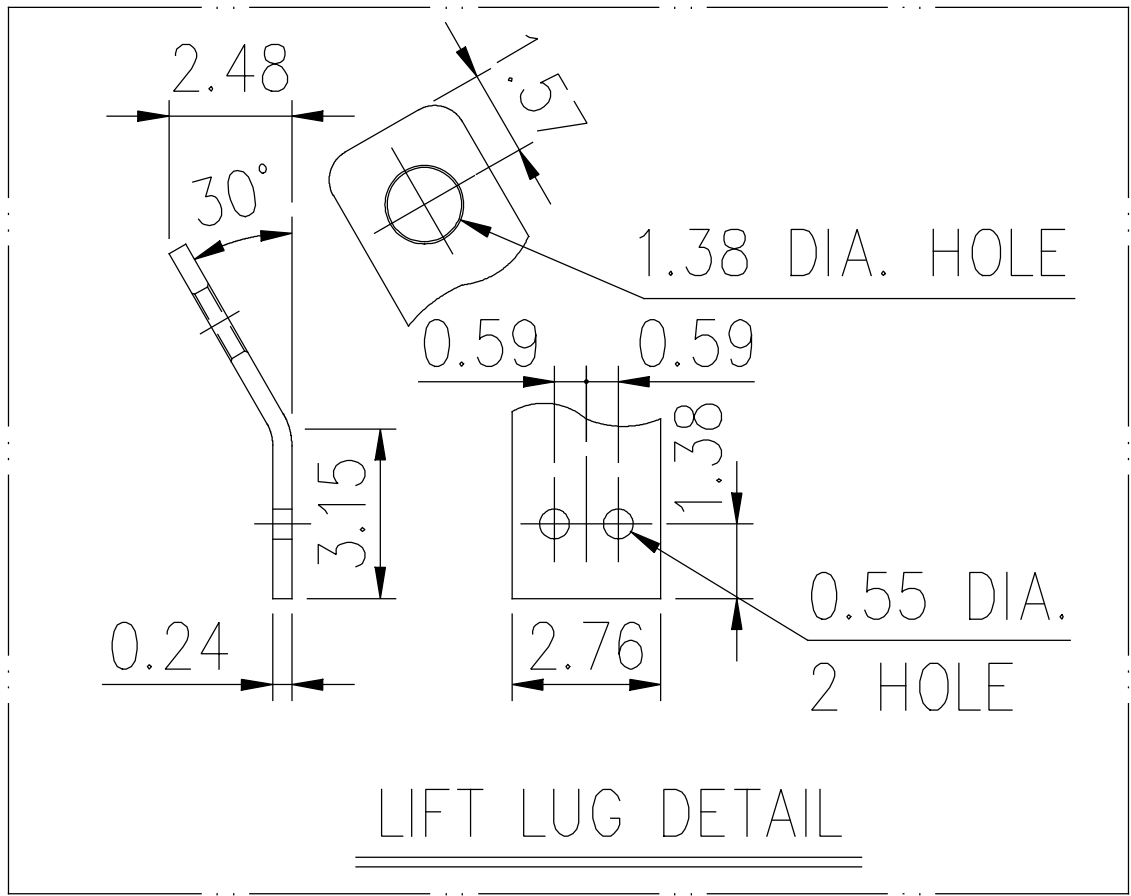
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run Or Inverter
Poles	2	Rotation	Counterclockwise Rotation, Reversible without Non-Reversible Ratchet
Mounting	Round	Motor Orientation	Shaft Down
Drive End Bearing	Ball	Opp Drive End Bearing	Single Angular Contact
Frame Material	Cast Iron	Shaft Type	TP
Overall Length	27.85 in	Shaft Diameter	1.375 in
Shaft Extension	0.12 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	VARIABLE 3:1		
Connection Drawing	EE7308DX	Outline Drawing	SS620835

COUPLING	BX DIA.	KEYWAY		BY	BZ	XF	XC
		WIDE	DEEP				
	1.001	0.250	0.140	10-32UNF	1.375	1.650	0.430
	1.188	0.250	0.140	1/4-20UNC	1.750	1.650	0.430
	1.251	0.250	0.140	1/4-20UNC	1.750	1.650	0.430
	0.751	N/A	N/A	N/A	N/A	N/A	N/A

SS620835



BOTTOM VIEW OF MOTOR



COUPLING

- (1) DIMENSIONS ARE IN INCHES.
(2) DRIVE END BEARING 6309
OPPOSITE DRIVE END BEARING 7311B
(3) APPROXIMATE WEIGHT = 370 LBS

(4) END OF LINE TESTS - SPECIFIC TO EACH RATING
*NO LOAD AMPS @ FULL VOLTAGE
*NO LOAD WATTS @ FULL VOLTAGE
*VIBRATION MEETS MG-1 STANDARD
BALANCE 0.15 IN/S 3.8 MM/S

				TOLERANCES UNLESS SPECIFIED		REGAL REGAL - BELOIT CORPORATION	DRAWN		
				DEC.	INCHES		CHK	APPD	SCALE
				.X	±.1	TITLE OUTLINE 254/256TP12 FRAME	REF		
				.XX	±.03		FMF		
				.XXX	±.005		PREV		
				.XXXX	±.0005	FINISH			
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"				
B			UPDATED PER MARK-UPS	ECO-0151417	WGJ	9-7-2018	AL	.XXX	±.005
A			RELEASED FOR PRODUCTION	ECO-0125213	WGJ	6-13-2017	AL	.XXXX	±.0005
			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		SIZE
						DIST			DRAWING NO.
							B		SS620835
									REV.
									B

T12 (W4) —
T1 (U1) —
T6 (W2) — L1
T7 (U3) —

T2 (V1) —
T4 (U2) —
T8 (V3) — L2
T10 (U4) —

T3 (W1) —
T5 (V2) —
T9 (W3) — L3
T11 (V4) —

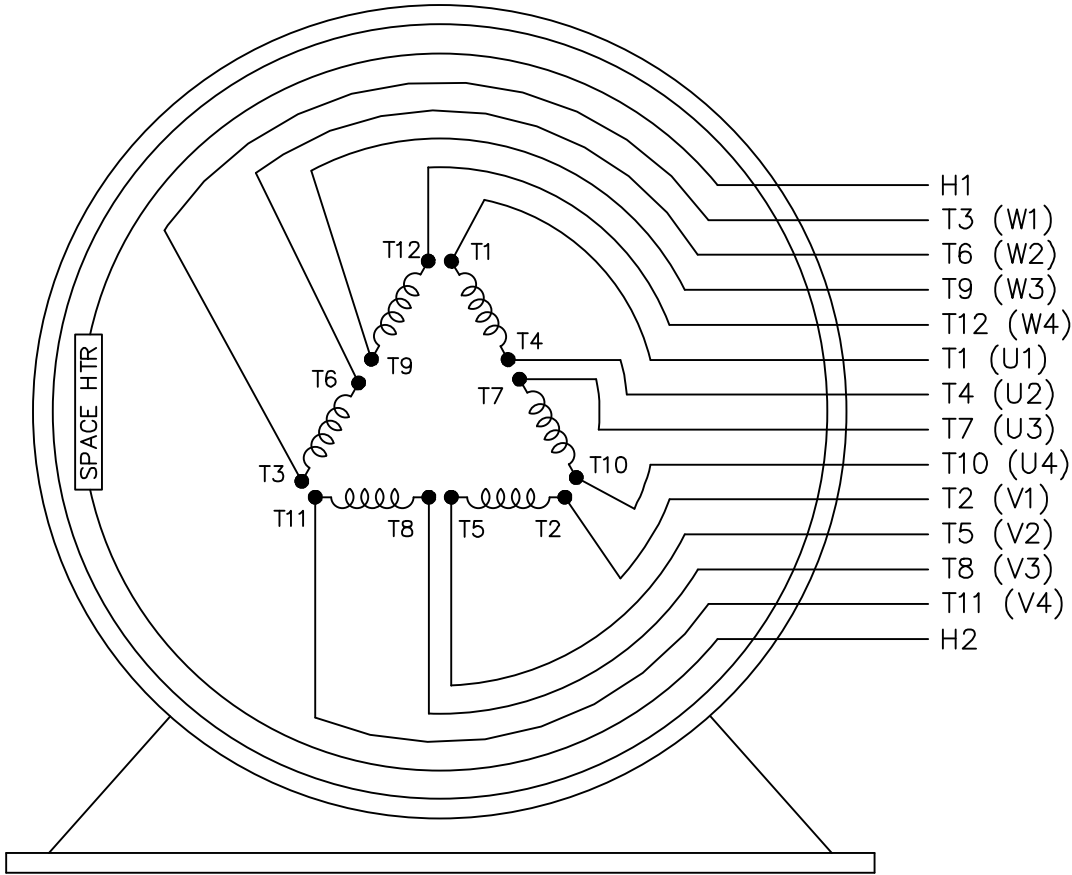
LOW VOLTAGE

T12 (W4) —
T1 (U1) — L1
T4 (U2) —
T7 (U3) —

T2 (V1) —
T10 (U4) — L2
T5 (V2) —
T8 (V3) —

T3 (W1) —
T11 (V4) — L3
T6 (W2) —
T9 (W3) —

HIGH VOLTAGE



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			DRAWN KL 02-05-1999			
				DEC.	INCHES		CHK	DJK	02-05-1999	
				.X	± -		APPD	DJK	02-05-1999	
				.XX	± -	TITLE CONNECTION DIAGRAM 12 LEADS - 3 PHASE - 2/1 DELTA		SCALE	1=1	
2	ADDED IEC MARKINGS	MU110339	MSG 10-15-2012	SJW .XXX	± -			REF		
1	NEW DRAWING	MU23624	KL 02-05-1999	DJK .XXXX	± -	MAT'L.		FMF	MU23624	
NO.	REVISION		BY & DATE	CHK	ANG	± -	FINISH		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 02-05-1999		CAD FILE EE7308DX		SIZE	DRAWING NO. PAGE OF	REV.
				DIST				A	EE7308DX	



**P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311**

CERTIFICATION DATA SHEET**CUSTOMER:****ORDER #:****CONN. DIAGRAM:** EE7308DX**OUTLINE:** SS620835**WINDING #:** TPE2562001 1**CUSTOMER PO#:****MODEL #:** 256VTDC6001 AA**CUSTOMER PART #:****MOUNTING:** F1/F2 CAPABLE**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
25&20	18.7&14.9	3600	3520&2930	256TPV	WPI	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	58/29&58/28.9	PWS (LV ONLY) & YDRUN OR INV	CONTINUOUS	F	1.15/1.15	40

FULL LOAD EFF:	91.7&90.2	3/4 LOAD EFF:	91	1/2 LOAD EFF:	90.2	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	88&87	3/4 LOAD PF:	87.5	1/2 LOAD PF:	84	91		SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
37.3 LB-FT	364 / 182	74 LB-FT 197 %	105 LB-FT 280 %	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	1.4 LB-FT^2	81 LB-FT^2	12 SEC.	1	385 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
P-BASE-12	STANDARD	ROUND	SHAFT DOWN	FALSE	NONE	TRUE	RODENT	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	SINGLE ANGULAR CONTACT	POLYREX EM	TP	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6309	7311B						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	110 VOLTS

*

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INVERTER TORQUE: VARIABLE 3:1**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

PREPARED BY: DineshSuddula **DATE:**

02/14/2019 03:57:06 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

460

Volts

HP 25&20

PHASE 3

Model No 256VTDC6001

60

HZ

VOLTS 230/460&190/380

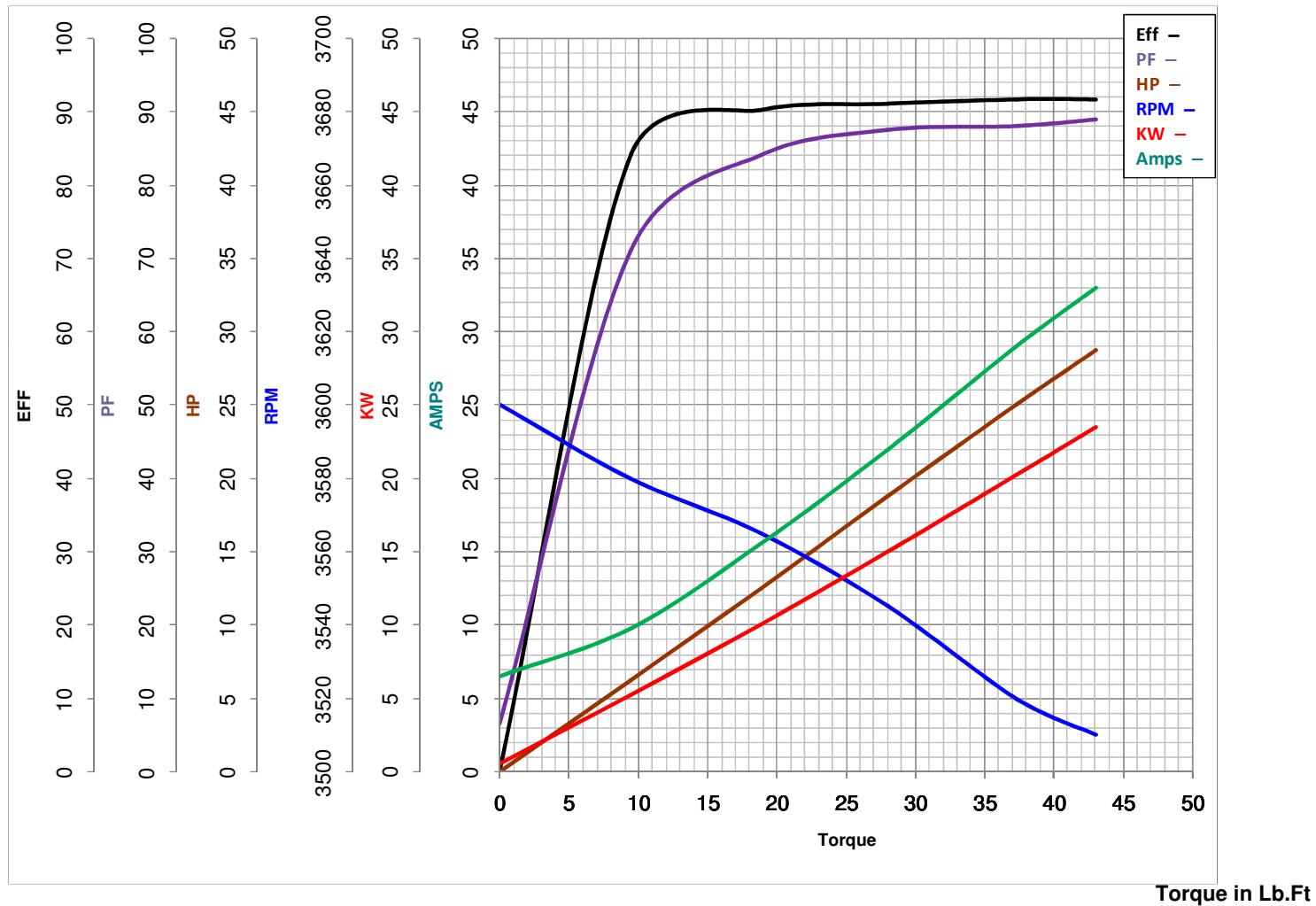
25

HP

HZ 60&50

RPM 3520&2930

Catalog No V118A



FL TORQUE 37.3 Lb.Ft
 BD TORQUE 105.0 Lb.Ft
 LR TORQUE 74 Lb.Ft

FL AMPS 58/29
 PU TORQUE 70.0 Lb.Ft
 LR AMPS 182

WINDING TPE2562001-

Date 3/7/2019

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 : 256VTDC6001

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

Catalog No : V118A

Rework No : N/A

Directives :

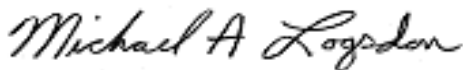
Low Voltage Directive 2014/35/EU

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