

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 284VTDC6001

Catalog No: V121A

Vertical Pump Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
284TPV Frame, WPI



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RegalRexnord

Nameplate Specifications

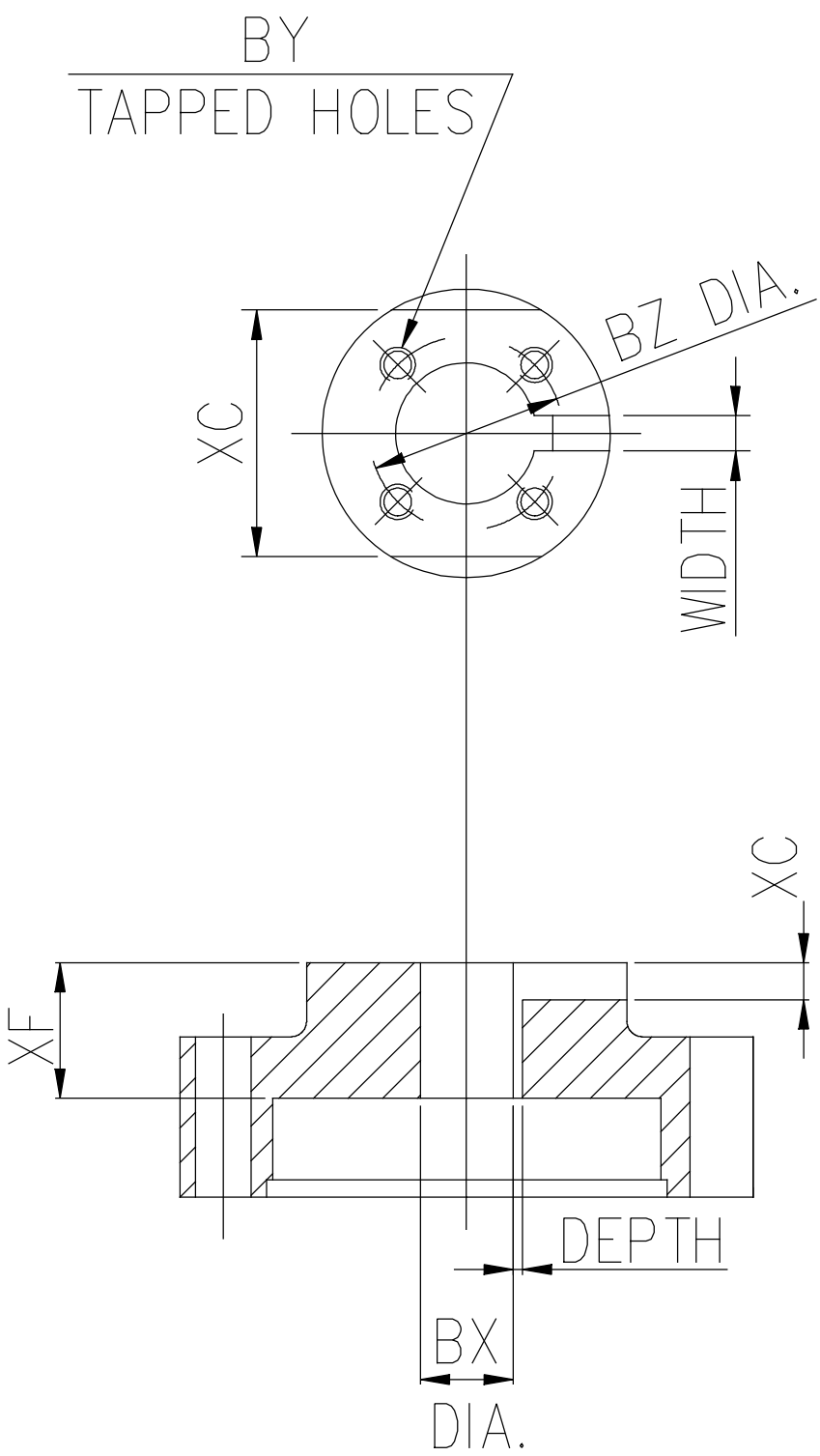
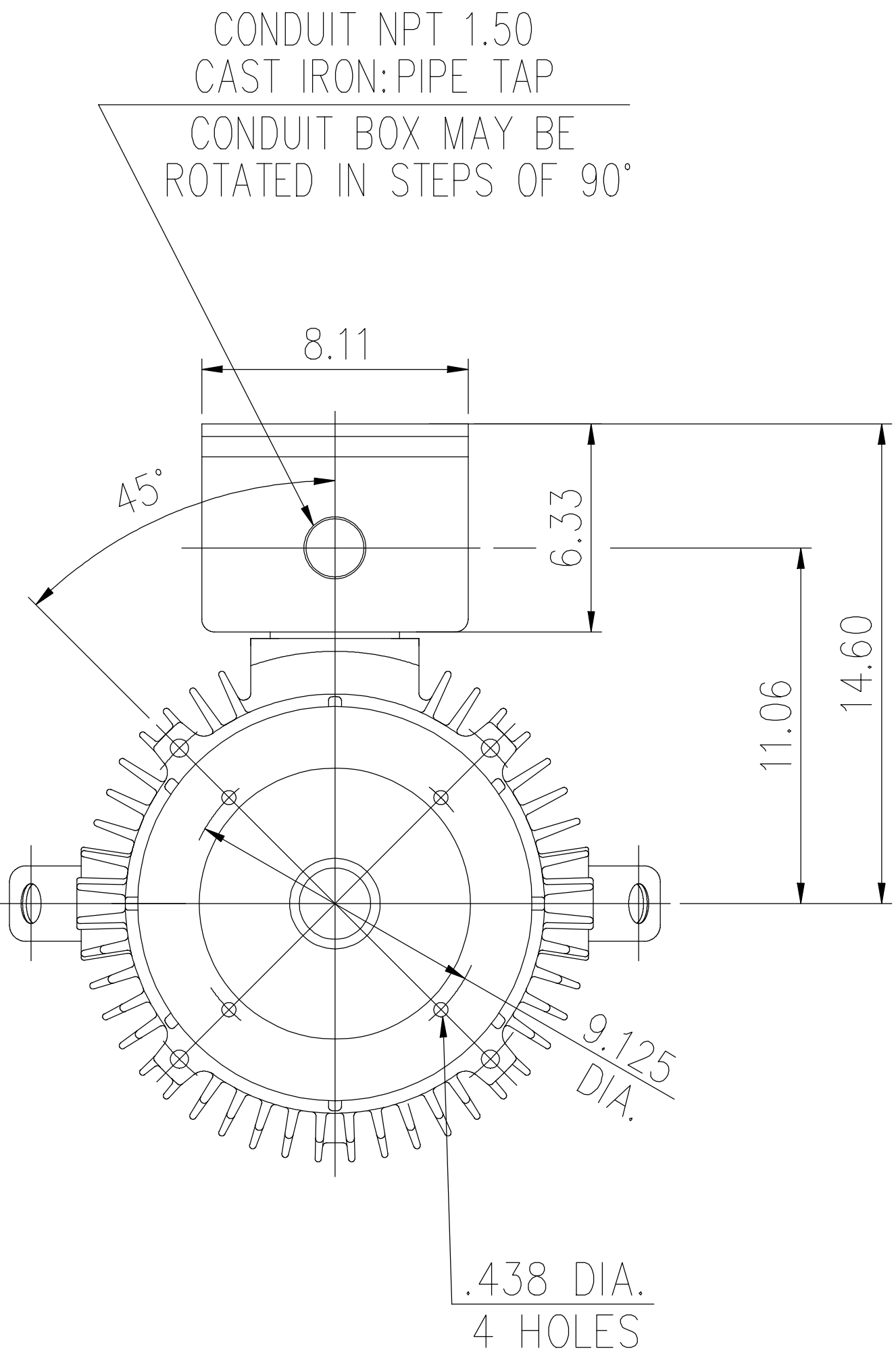
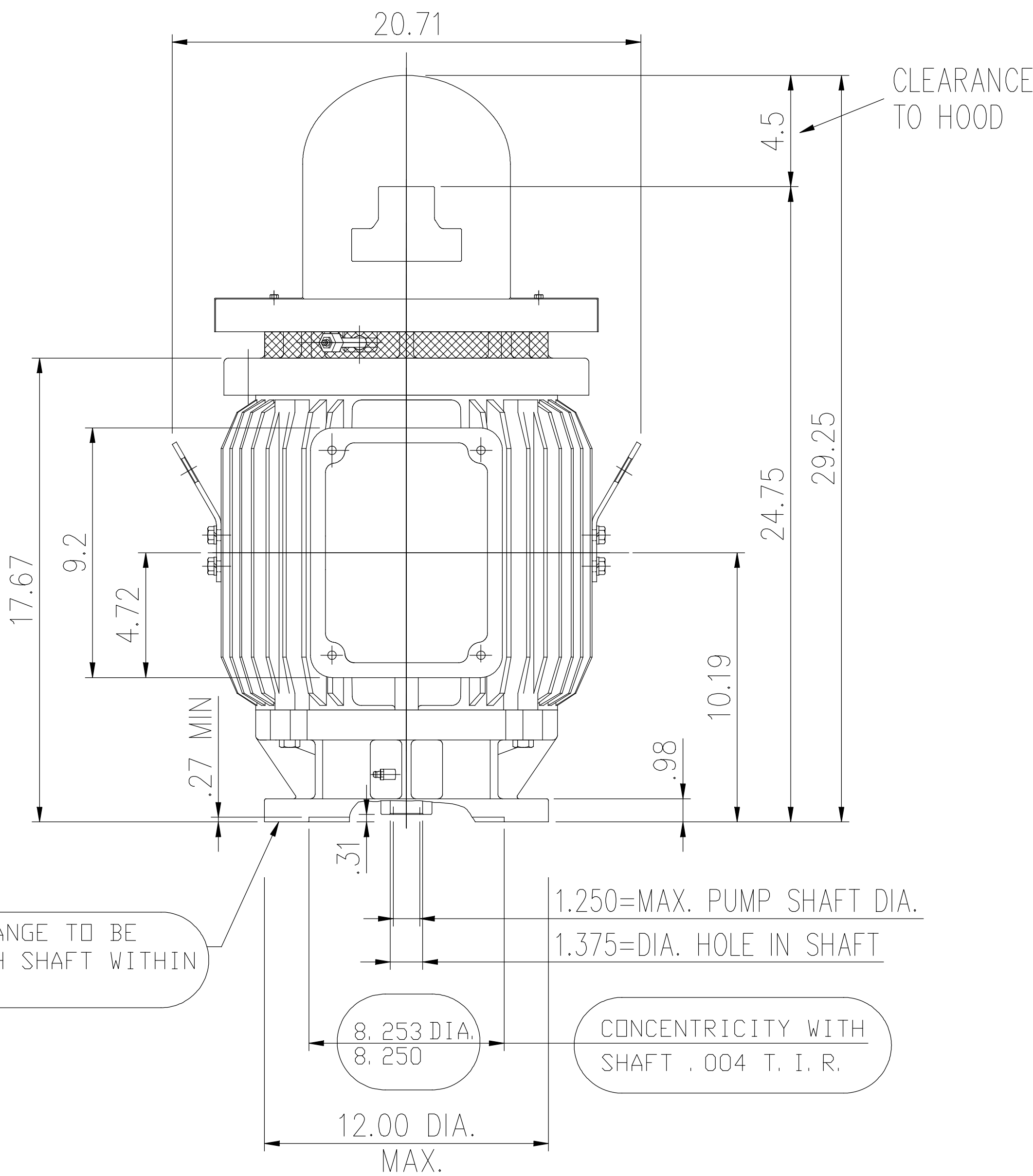
Phase	3	Output HP	30 & 25 Hp
Output KW	22.4 & 18.7 kW	Voltage	230/460 & 190/380 V
Speed	3540 & 2950 rpm	Service Factor	1.15 & 1.15
Frame	284TPV	Enclosure	Weather Protected 1
Thermal Protection	No Protection	Efficiency	91.7 & 90.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	70.5/35 & 73/36.5 A	Power Factor	87
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6311	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	29.25 in	Shaft Diameter	1.375 in
Shaft Extension	0.31 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	VARIABLE 3:1		
Connection Drawing	EE7308DX	Outline Drawing	SS620836

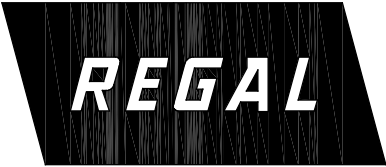
COUPLING	BX DIA.	KEYWAY		BY	BZ	XF	XC
		WIDE	DEEP				
	1.001	0.250	0.140	10-32UNF	1.375	1.850	0.430
	1.188	0.250	0.140	1/4-20UNC	1.750	1.850	0.430
	1.251	0.250	0.140	1/4-20UNC	1.750	1.850	0.430
	0.751	N/A	N/A	N/A	N/A	N/A	N/A

SS620836



- (1) DIMENSIONS ARE IN INCHES.
(2) DRIVE END BEARING 6311
OPPOSITE DRIVE END BEARING 7311B
(3) APPROXIMATE WEIGHT = 490 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 - BELOIT CORPORATION	DRAWN	
				DEC.	INCHES		CHK	
				.X	±.1		APPD	
C	UPDATED PER MARK-UPS ECO-0151417	WGJ 9-10-2018	AL	.XX	±.03	TITLE OUTLINE 284/286TP12 FRAME	SCALE	
B	RE-PUBLISHED ECO-0125813	WGJ 6-21-2017	EMH	.XXX	±.005		REF	
A	RELEASED FOR PRODUCTION ECO-0125213	WGJ 6-13-2017	AL	.XXXX	±.0005	MAT'L.	FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	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	CAD FILE		SIZE	DRAWING NO.	REV.
			DIST			B	SS620836	C

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) —

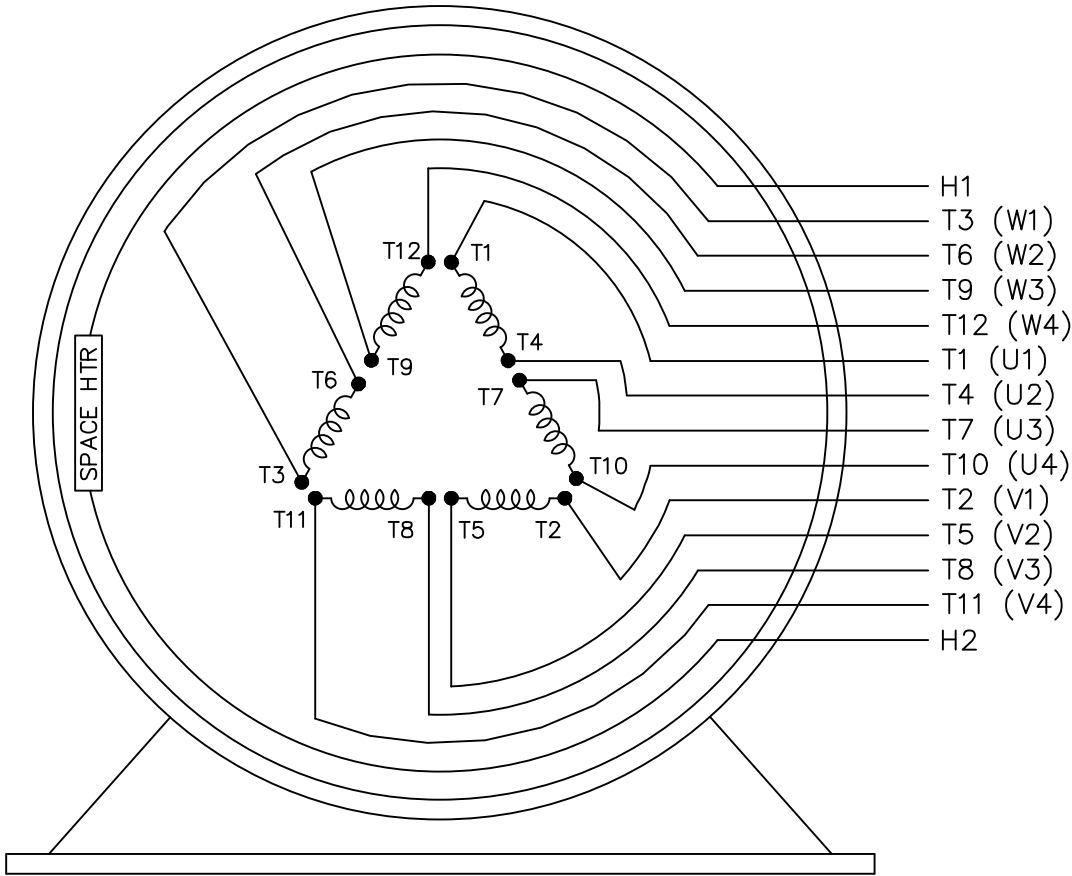
LOW VOLTAGE

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		 MARATHON ELECTRIC	DRAWN KL 02-05-1999				
				DEC.	INCHES		CHK	DJK	02-05-1999		
				.X	± -		APPD	DJK	02-05-1999		
				.XX	± -	TITLE CONNECTION DIAGRAM			SCALE	1=1	
2	ADDED IEC MARKINGS	MU110339	MSG 10-15-2012	SJW .XXX	± -	12 LEADS - 3 PHASE - 2/1 DELTA			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		2



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

CERTIFICATION DATA SHEET**CUSTOMER:****ORDER #:****CONN. DIAGRAM:** EE7308DX**OUTLINE:** SS620836**WINDING #:** TPE2842001 1**CUSTOMER PO#:****MODEL #:** 284VTDC6001 AA**CUSTOMER PART #:****MOUNTING:** F1/F2 CAPABLE**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30&25	22.4&18.7	3600	3540&2950	284TPV	WPI	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	70.5/35&73/36.5	PWS (LV ONLY) & YDRUN OR INV	CONTINUOUS	F	1.15/1.15	40

FULL LOAD EFF:	91.7&90.2	3/4 LOAD EFF:	91.7	1/2 LOAD EFF:	91	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	87&86	3/4 LOAD PF:	86.5	1/2 LOAD PF:	82	91		SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.5 LB-FT	430 / 215	102 LB-FT 230 %	128 LB-FT 288 %	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	2.6 LB-FT^2	101 LB-FT^2	15 SEC.	1	455 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
6311	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:**

02/18/2019 12:23:07 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 30&25

 PHASE 3

 Model No 284VTDC6001
60

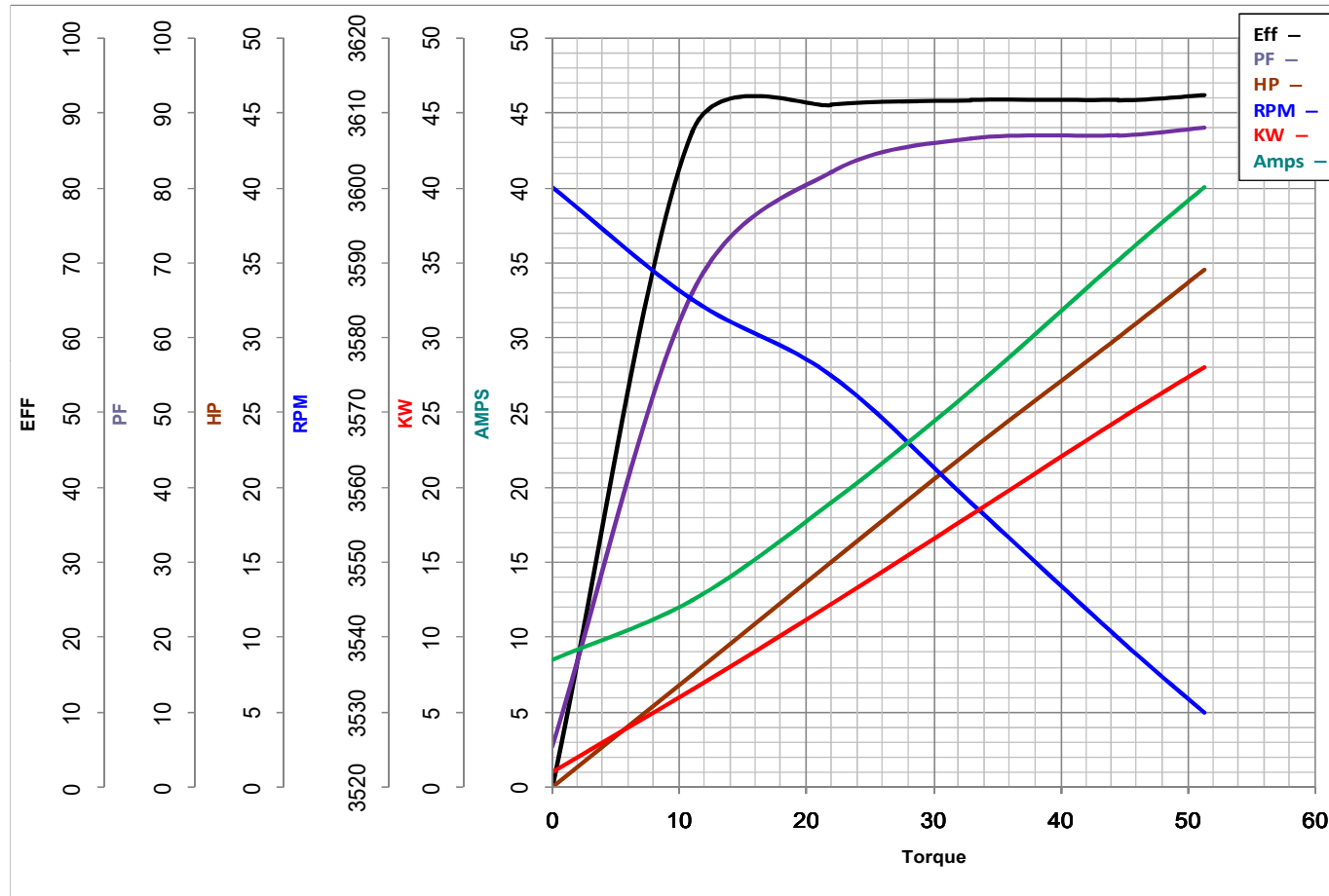
HZ

 VOLTS 230/460&190/380
30

HP

 Catalog No V121A

 HZ 60&50

 RPM 3540&2950


Torque in Lb.Ft

 FL TORQUE 44.5 Lb.Ft

 BD TORQUE 128.0 Lb.Ft

 LR TORQUE 102 Lb.Ft

 FL AMPS 70.5/35

 PU TORQUE 82.0 Lb.Ft

 LR AMPS 215

WINDING TPE2842001-1

Date 11/2/2018