

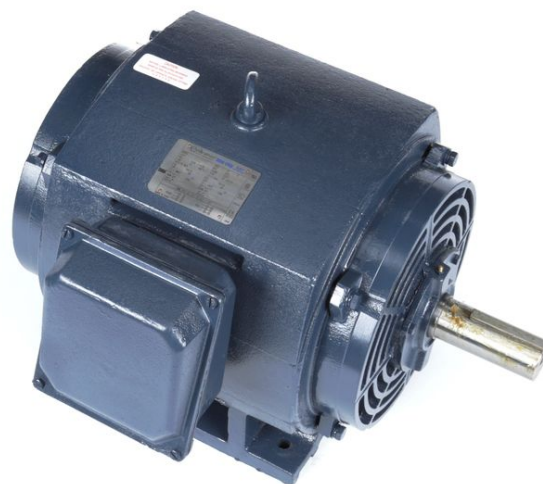
PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 447TTDN16382

Catalog No: H822B

250 HP General Purpose Motor, 3 phase, 1200 RPM, 460 V, 447T Frame, ODP
General Purpose Motors



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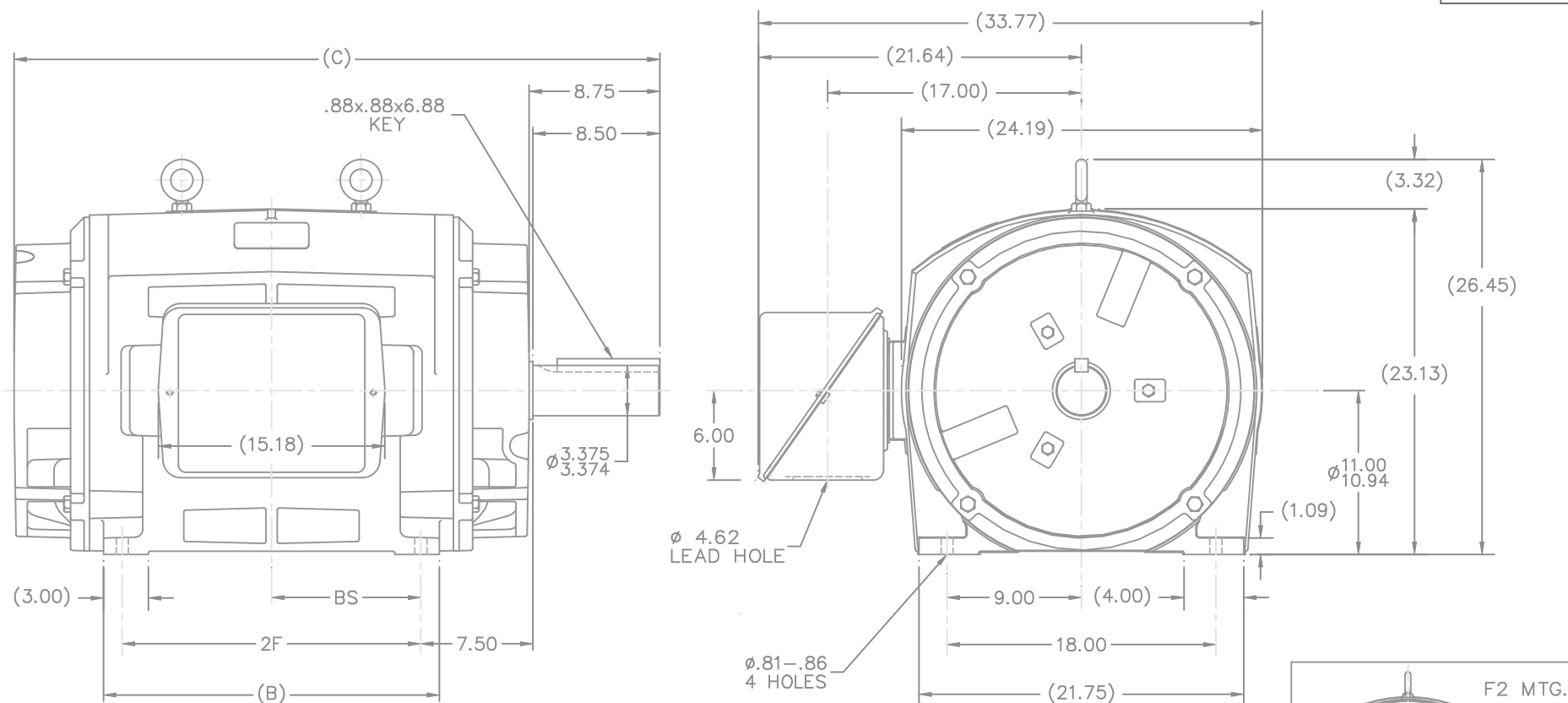
Nameplate Specifications

Output HP	250 Hp	Output KW	187.0 kW
Frequency	60 Hz	Voltage	460 V
Current	310.0 A	Speed	1186 rpm
Service Factor	1.15	Phase	3
Efficiency	95.8 %	Power Factor	79
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	447T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	NU318	Opp Drive End Bearing Size	6314
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	6	Rotation	Reversible
Resistance Main	.018 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Roller
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	43.25 in
Frame Length	24.38 in	Shaft Diameter	3.375 in
Shaft Extension	8.75 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	A-EE7300BH	Outline Drawing	B-SS514252-2438

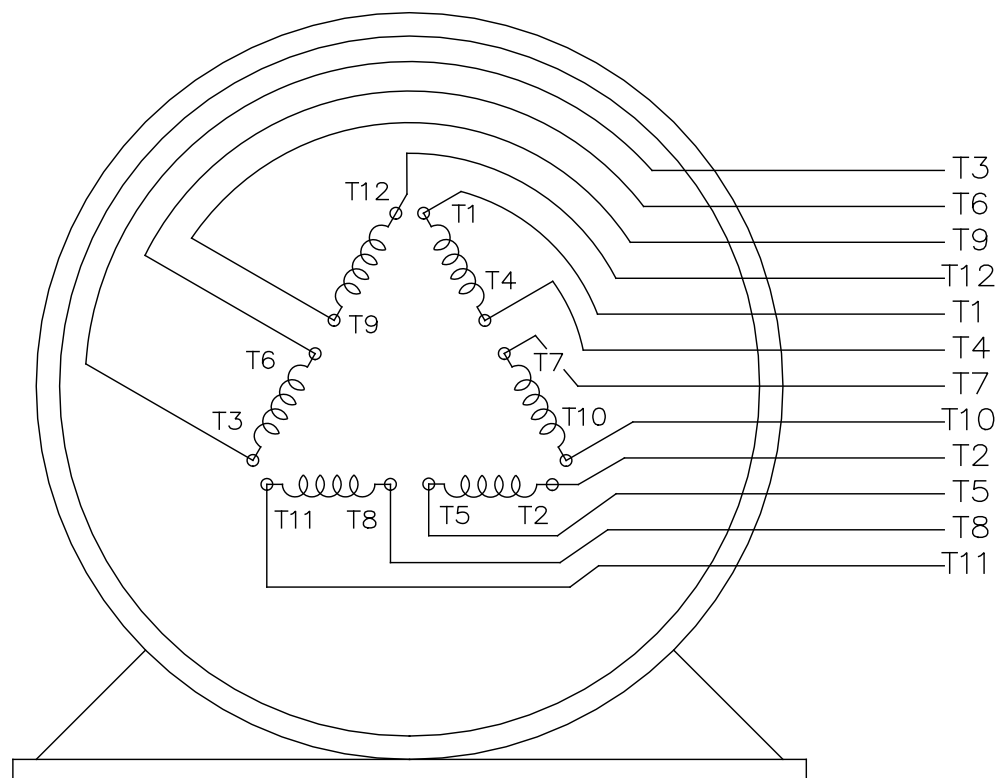
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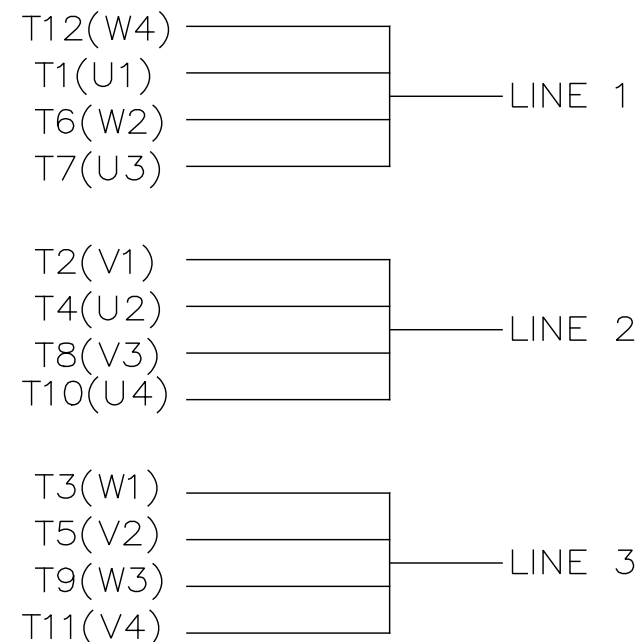
NOTES:

1. C.BOX CAN BE ROTATED IN 90° STEPS.
2. C.BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS & TURNING FRAME 180°.
3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

									7	UPDATED DE BRACKET GEOMETRY	CN 35521	DRS		TOLERANCES UNLESS SPECIFIED		DRAWN	JL 06-23-1992								
									6	ADDED F2 MOUNTING VIEW	CN 29200-263	DRS	03-24-2000	DEC.		INCHES	CHK	TB 06-23-1992							
									5	ADDED OVERALL DIMENSIONS	CN 27400-627	BJW	01-17-2000	.X		±.1	APPD	JPN 07-10-1992							
									4	REVISED TO NEC CONDUIT BOX	CN 28405	BJW		.XX		±.03	SCALE	1=7							
									3	REMOVED 700 CU.IN. C'BOX NOTE	CN 16342	KL	10-07-1993	.XXX	±.005	TITLE OUTLINE -- DR.PR. 447-449T FR.	REF								
									2	C' DIM. WAS 43.19 & 48.19	CN 15854	JL	06-09-1993	.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 OR INVENTION ARE RESERVED. THIS IS AN ELECTRONICALLY GENERATED DOCUMENT -- DO NOT SCALE THIS PRINT																									
DASH	FRAME	C	AG	B	2F	2FF	2FFF	BS								RFP	CAD FILE SS514252	SIZE	DRAWING NO.	PAGE	OF	REV.			
2438	447T	43.25	----	22.50	20.00	----	----	10.00								DIST	WA-SB	B	SS514252				7		
2938	449T	48.25	----	27.50	25.00	----	----	12.50																	



VIEW OF TERMINAL END



				TOLERANCES UNLESS SPECIFIED		 REGAL - BELOIT CORPORATION	DRAWN RJW 02-11-2005					
				DEC.	INCHES		CHK	ML	02-11-2005			
				.X	±.1		APPD	GK	02-11-2005			
				.XX	±.02		SCALE					
D	CHANGED TO REGAL TITLE BLOCK	ECO-0108299	WGJ 08/22/2016	EMH	.XXX	±.005	TITLE CONNECTION DIAGRAM 12 LEAD- SINGLE VOLTAGE			REF		
1	ADDED IEC TERMINAL MARKINGS	CN 41429	JJB 05/24/2007	ML	.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 02-11-2005		CAD FILE ee7300bh		SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST LB				A	EE7300BH		C	

CERTIFICATION DATA SHEET

Model#: 447TTDN16382 AA
 CONN. DIAGRAM: A-EE7300BH
 OUTLINE: B-SS514252-2438

WINDING#: T447616 R1 2
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
250	187	1200	1186	447T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	310	PWS & YDRUN	CONTINUOUS	F1	1.15	40	3300

FULL LOAD EFF: 95.8	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 79	3/4 LOAD PF: 75	1/2 LOAD PF: 65	94.5	SQ CAGE IND RUN	126

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
1108 LB-FT	1750	2000 LB-FT 180	2500 LB-FT 225	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
76 dBA	86 dBA	91 LB-FT^2	2850 LB-FT^2	20 SEC.	2	2300 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						
ROLLER	BALL						
NU318	6314	SHC-100/POLYREX	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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: 06/21/2017 06:31:41 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/20/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



447TTDN16382

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	126	146	188	245	310	355	385	1,750	
Torque (ft-lb)	0.00	275	550	828	1,108	1,275	1,388	2,000	
RPM	1200	1198	1194	1190	1186	1,184	1182	0	
Efficiency (%)		92.4	95.0	95.8	95.8	95.4	94.5		
P.F. (%)	3.0	43.0	65.0	75.0	79.0	80.0	80.0	30.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																																	
Speed (RPM)	0	600	1125	1186	1200	Information Block																																
Current (Amps)	1,750	1,650	1,000	310	126	HP		250.0																														
Torque (ft-lb)	2,000	1,700	2,500	1,108	0.00	Sync. RPM		1200																														
Efficiency (%) P.F. (%) Current (Amps) <table><caption>Graph Data Points (Estimated)</caption><thead><tr><th>Load (%)</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>0</td><td>-</td><td>-</td><td>50</td></tr><tr><td>25</td><td>92</td><td>43</td><td>55</td></tr><tr><td>50</td><td>95</td><td>65</td><td>65</td></tr><tr><td>75</td><td>96</td><td>78</td><td>80</td></tr><tr><td>100</td><td>96</td><td>80</td><td>90</td></tr><tr><td>125</td><td>95</td><td>80</td><td>90</td></tr></tbody></table>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	0	-	-	50	25	92	43	55	50	95	65	65	75	96	78	80	100	96	80	90	125	95	80	90	Frame		447		
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																													
						0	-	-	50																													
						25	92	43	55																													
						50	95	65	65																													
						75	96	78	80																													
						100	96	80	90																													
						125	95	80	90																													
						Enclosure		DP																														
						Construction		TDN																														
						Voltage		460 V																														
						Frequency		60 Hz																														
						Design		B																														
						LR Code letter		G																														
						Service Factor		1.15																														
						Temp Rise @ FL		65 ° C																														
						Duty		CONT																														
Ambient		40 ° C																																				
Elevation		1,000 feet																																				
Rotor/Shaft wk²		91.0 Lb-Ft²																																				
Ref Wdg		T447616 R1																																				
Sound Pressure @ 1M		76 dBA																																				
VFD Rating		NONE																																				
Outline Dwg		B-SS514252-2438																																				
Conn. Diag		A-EE7300BH																																				
Additional Specifications:																																						
0																																						
0																																						
EQUIV CKT (OHMS / PHASE)																																						
R1		R2		X1		X2		Xm																														
0.0110		0.0100		0.0970		0.1520		2.1260																														

Speed -Torque Curve

