

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 447TTDN16077

Catalog No: U274

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



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RegalRexnord

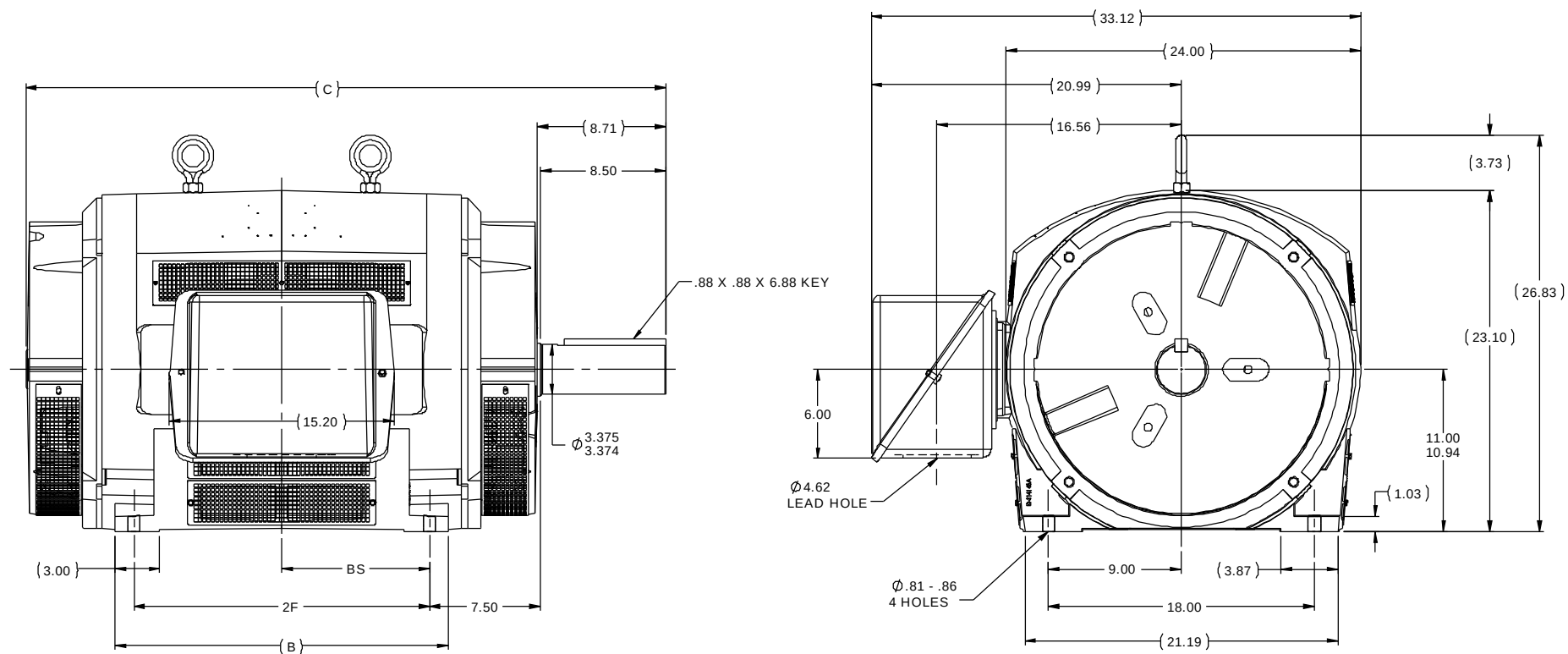
Nameplate Specifications

Output HP	150 Hp	Output KW	112.0 kW
Frequency	60 Hz	Voltage	460 V
Current	185.0 A	Speed	1190 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	80
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	6318	Opp Drive End Bearing Size	6314
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

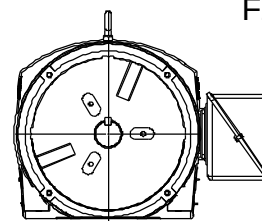
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	.029 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	43.25 in
Frame Length	24.38 in	Shaft Diameter	3.375 in
Shaft Extension	8.71 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300S	Outline Drawing	B-SS555884-2438

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NOTES:

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



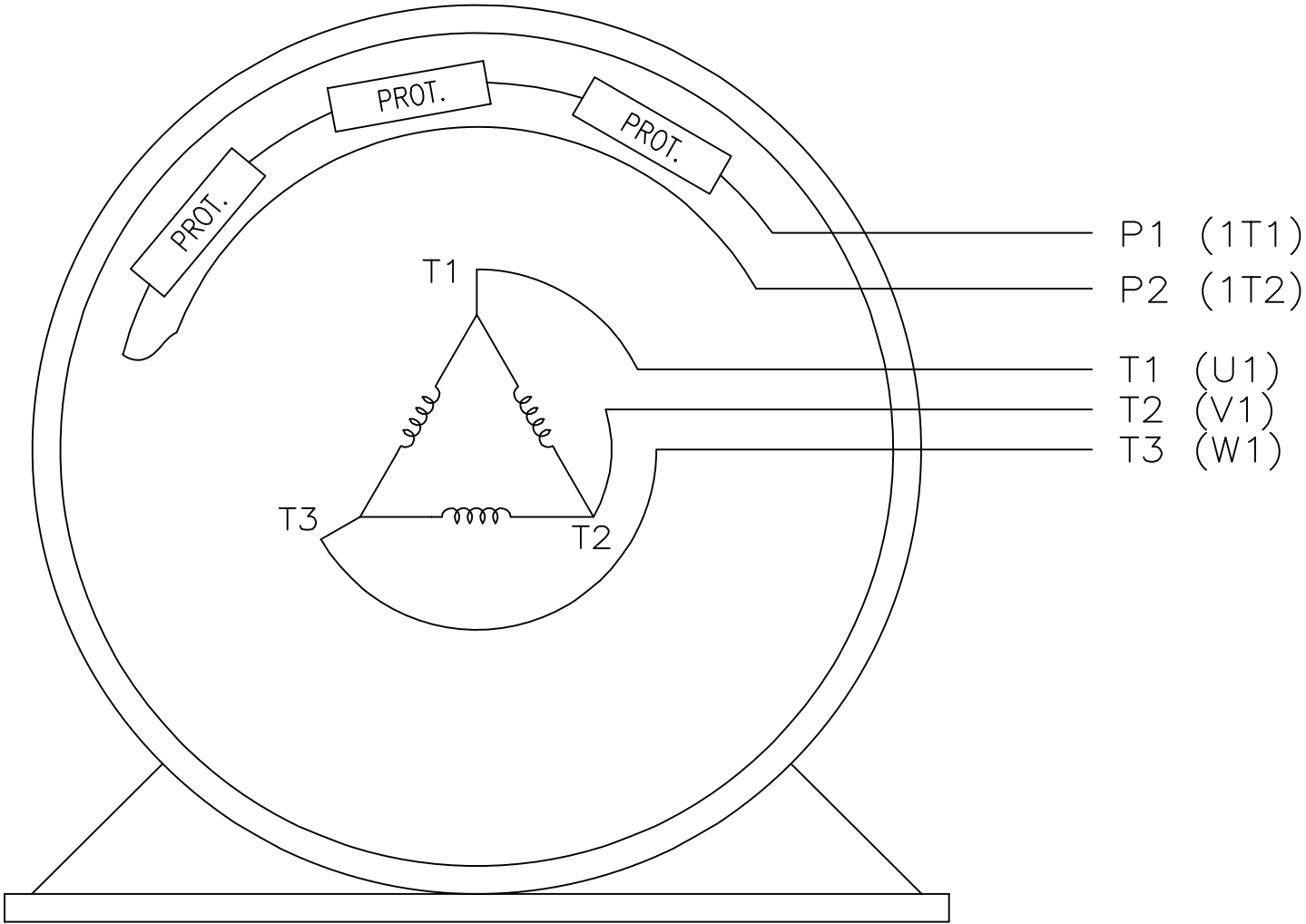
F2 MTG

									TOLERANCES UNLESS SPECIFIED		REGAL Regal-Beloit Corporation		DRAWN WGJ 09-18-2013	
									DEC	INCHES			CHK DD 09-18-2013	
									X	±.1			APPR DK 09-18-2013	
									XX	±.03	TITLE OUTLINE - DR. PR.		SCALE 1:12	
									XXX	±.005	447 - 449T FR.		REF SS514867	
									XXXX	±.0005	MAT'L		FMF ECO-0038201	
									NO	REVISION	BY & DATE	CHK ANG ±7°30"	FINISH	OF
									THIRD ANGLE PROJECTION				PREV	
									NETWORK FILE NAME SS555884				SIZE B	DRAWING NO SS555884
2438	447T	43.25	-----	22.50	20.00	-----	-----	10.00						
2938	449T	48.25	-----	27.50	25.00	-----	-----	12.50						
DASH	FRAME	C	AG	B	2F	2FF	2FFF	BS						

EE7300S

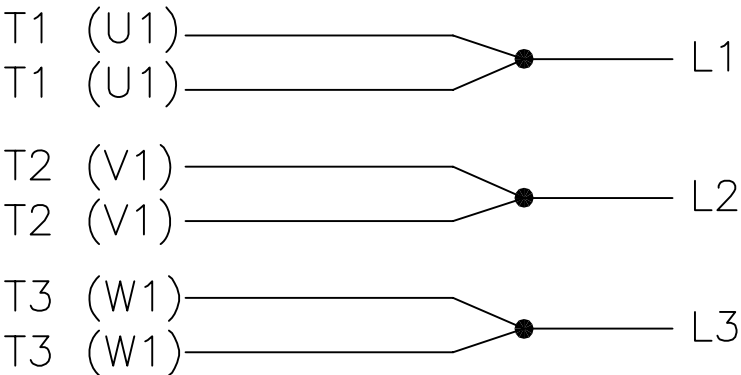
THREE PHASE – SINGLE VOLTAGE MOTOR

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS



P1 (1T1)
P2 (1T2)
T1 (U1)
T2 (V1)
T3 (W1)

IF MOTOR HAS MULTIPLE
T'S PER LEAD CONNECT
TOGETHER LIKE T'S



A-9806 DECAL

VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		 REGAL-BELOIT CORPORATION	DRAWN KL 12-15-1999			
				DEC.	INCHES		CHK DJK 12-15-1999			
F	UPDATED TITLE BLOCK	HV 02-27-2014	EWB	.X	± -		APPD DJK 12-15-1999			
3	REMOVED "N.C." FROM PROT.'S MU61770	JJB 08-02-2010		.XX	± -	TITLE CONNECTION DIAGRAM – EXTERNAL SINGLE VOLTAGE 3Ø MOTOR	SCALE 1=1			
2	ADDED IEC MARKINGS MU61770	KL 09-16-2004	EAB	.XXX	± -		REF			
1	NEW DRAWING	KL 12-16-1999		.XXXX	± -	MAT'L.	FMF			
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		CAD FILE ee7300s		SIZE A	DRAWING NO. EE7300S	PAGE OF	REV. F
			DIST WA-LB-SB							

CERTIFICATION DATA SHEET

Model#: 447TTDN16077 AA
 CONN. DIAGRAM: A-EE7300S
 OUTLINE: B-SS555884-2438

WINDING#: T447620 NONE 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
150	112	1200	1190	447T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	185	ACROSS THE LINE	CONTINUOUS	F1	1.15	40	3300

FULL LOAD EFF: 95.4	3/4 LOAD EFF: 95.4	1/2 LOAD EFF: 94.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 80	3/4 LOAD PF: 76.5	1/2 LOAD PF: 67	95	SQ CAGE IND RUN	71.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
663 LB-FT	1050	1100 LB-FT 166	1500 LB-FT 226	40

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
76 dBA	86 dBA	80 LB-FT^2	- LB-FT^2	20 SEC.	-	2100 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						
6318	6314	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	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 PPR
	BRAKE: NONE NONE
	NONE P/N NONE
	NONE NONE
	NONE FT-LB NONE V NONE Hz

DATE: 06/21/2017 06:30:19 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 1/28/2019

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



447TTDN16077

Submittal

Data @ 460 V

Motor Load Data

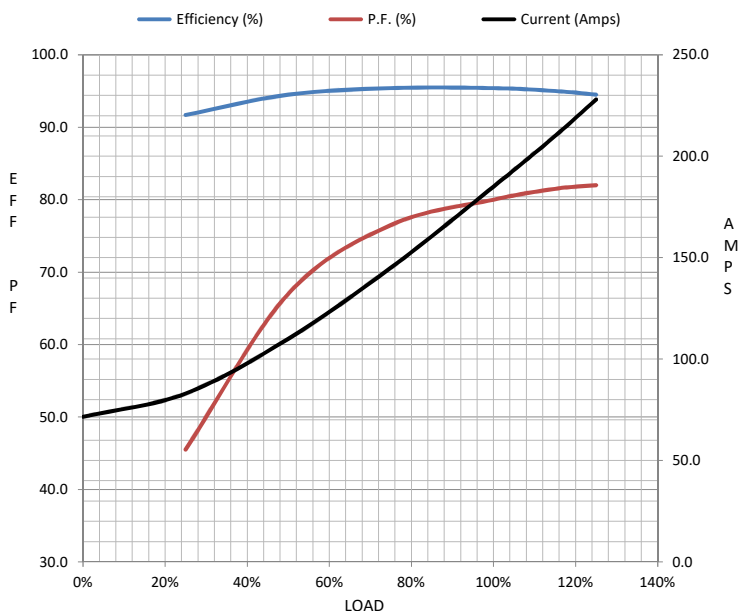
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	71.5	83.0	110	145	185	210	228	1,050	
Torque (ft-lb)	0.00	165	330	496	663	763	831	1,100	
RPM	1200	1196	1194	1192	1190	1,188	1186	0	
Efficiency (%)		91.7	94.5	95.4	95.4	95.0	94.5		
P.F. (%)	3.5	45.5	67.0	76.5	80.0	81.5	82.0	28.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1150	1190	1200
Current (Amps)	1,050	900	600	185	71.5
Torque (ft-lb)	1,100	950	1,500	663	0.00

Information Block

HP	150.0			
Sync. RPM	1200			
Frame	447			
Enclosure	DP			
Construction	TDS			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	40 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	80.0 Lb-Ft ²			
Ref Wdg	T447620 NONE			
Sound Pressure @ 1M	76 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS555884-2438			
Conn. Diag	A-EE7300S			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0210	0.0140	0.1540	0.2420	3.6190



Speed -Torque Curve

