

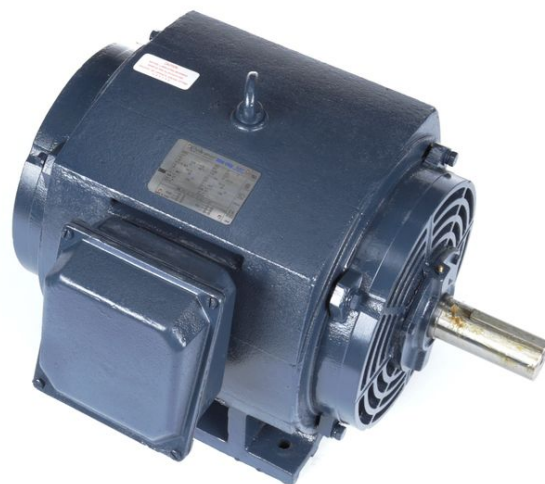
PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 286TTDN16073

Catalog No: E911A

30 HP General Purpose Motor, 3 phase, 1800 RPM, 200 V, 286T Frame, ODP
General Purpose Motors



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RegalRexnord

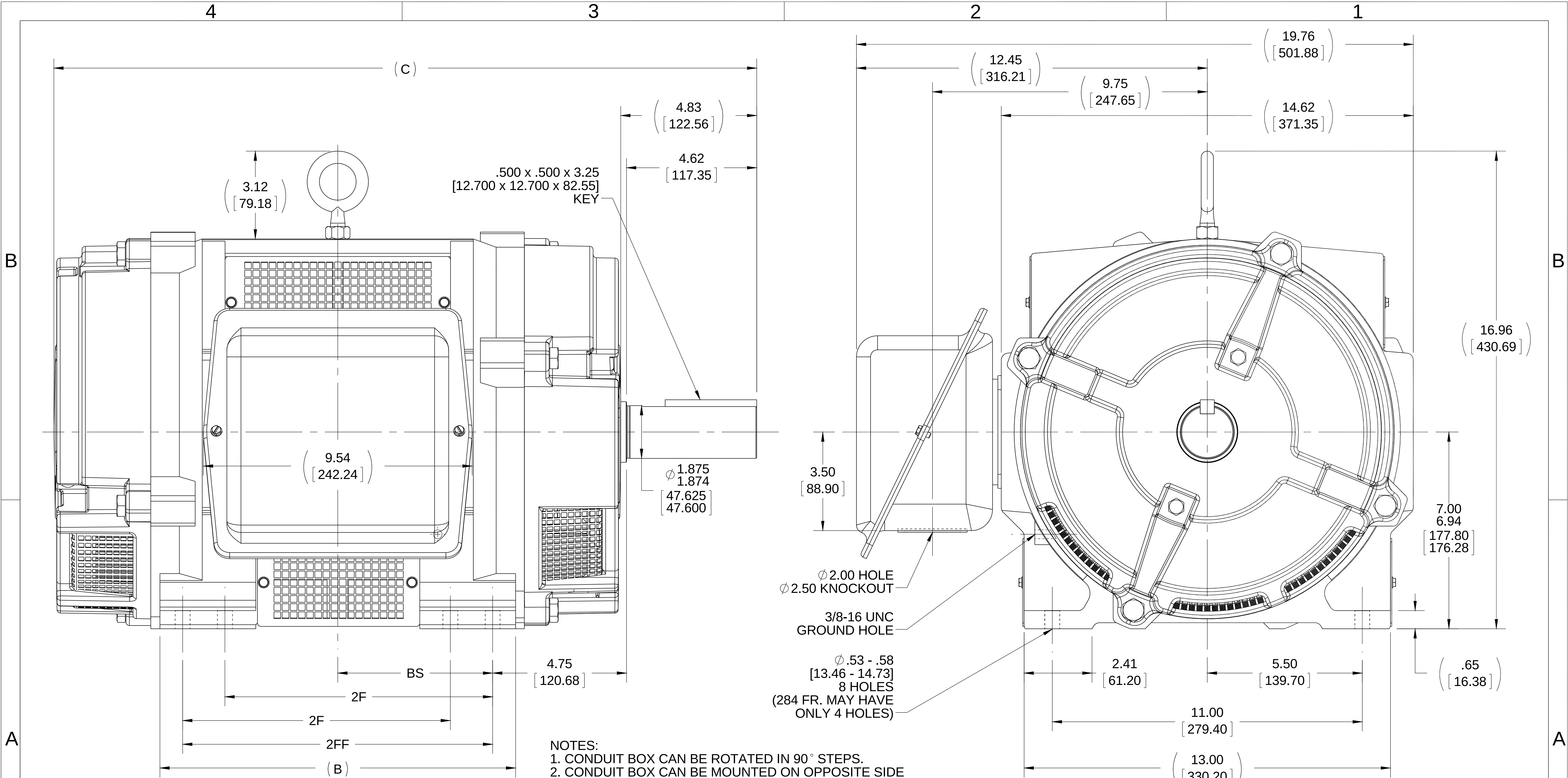
Nameplate Specifications

Output HP	30 Hp	Output KW	22.4 kW
Frequency	60 Hz	Voltage	200 V
Current	85.0 A	Speed	1775 rpm
Service Factor	1.15	Phase	3
Efficiency	94.1 %	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	286T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
UL	Recognized	CSA	Y
CE	Y	IP Code	23
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.22 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	26.81 in
Frame Length	15.12 in	Shaft Diameter	1.875 in
Shaft Extension	4.81 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	B-SS207936-1512	Connection Drawing	A-EE7300U

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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. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

							DRAWING REVISION C	REVISION BY J. OTTO	DATE 06-28-2016	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE .X ±0.1 [±2.5] ±7' 30" .XX ±0.03 [±0.76] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [51] MACHINED SURFACES: 200 INCH mm 5.1 mm SHOWN IN [BRACKETS]	DRAWN BY RJW	 Regal Beloit America, Inc.				
DASH	FRAME	B	C	2F	2FF	BS	ECO ECO-0104805	APPROVED BY T. BROWN	DATE 06-29-2016		DATE 10-08-2007		DESCRIPTION			
1275	284T	11.75 [298.45]	24.44 [620.78]	---	9.50 [241.30]	4.75 [120.65]	ECO DESCRIPTION					APPROVED BY BW	OUTLINE 280T FR. - DR. PR. - CAST IRON			
1325	284T/ 286T	12.62 [320.55]	24.94 [633.48]	9.50 [241.30]	11.00 [279.40]	5.50 [139.70]	UPDATED TITLE BLOCK COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT 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.					DATE 10-09-2007				
1512	286T	14.50 [368.30]	26.81 [680.97]	11.00 [279.40]	---	6.44 [163.58]						REFERENCE	MATERIAL	PROCESS/FINISH		
												THIRD ANGLE PROJECTION		SIZE B	DRAWING NUMBER SS207936	SHEET 1 OF 1

IF MOTOR HAS 9 LEADS



IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS



VIEW OF TERMINAL END

DRAWING REVISION L	REVISION BY AJW	DATE 05-04-2015	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH. mm ANGLE .X ±0.1 [±2.5] ±7' 30" .XX ±0.02 [±0.51] XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200^{INCH}5.1^{mm} mm SHOWN IN [BRACKETS]		DRAWN BY DRS	REGAL™ Regal Beloit America, Inc.	
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015			DATE 09-27-1996	DESCRIPTION	
ECO DESCRIPTION UPDATED TO SOLIDWORKS			APPROVED BY GK		CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE		
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT 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.			DATE 09-30-1996	DESCRIPTION			
			REFERENCE	MATERIAL	PROCESS/FINISH		
THIRD ANGLE PROJECTION			SIZE A	DRAWING NUMBER EE7300U	SHEET 1 OF 1		

CERTIFICATION DATA SHEET

Model#: 286TTDN16073 AA
 CONN. DIAGRAM: A-EE7300U
 OUTLINE: B-SS207936-1512

WINDING#: K2864304 NONE 10
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30	22.4	1800	1775	286T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	200	85	ACROSS THE LINE	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 94.1	3/4 LOAD EFF: 94.1	1/2 LOAD EFF: 93.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 81	3/4 LOAD PF: 76.5	1/2 LOAD PF: 66	93.6	SQ CAGE IND RUN	35.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
89 LB-FT	478.4	160 LB-FT 180	220 LB-FT 247	25

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	4.7 LB-FT^2	- LB-FT^2	20 SEC.	-	460 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 (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6311	6210	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			
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: 06/27/2017 03:30:21 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/19/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



286TTDN16073

Submittal

Data @ 200 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	35.7	40.5	52.0	67.4	85.1	96.6	105	478	
Torque (ft-lb)	0.00	22.0	44.0	66.5	89.0	102	112	160	
RPM	1800	1792	1788	1782	1772	1,770	1768	0	
Efficiency (%)		91.0	93.6	94.1	94.1	93.6	93.0		
P.F. (%)	3.0	43.5	66.0	76.5	81.0	82.5	83.0	35.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																																					
Speed (RPM)	0	900	1678	1772	1800	Information Block																																				
Current (Amps)	478	430	297	85.1	35.7	HP	30.0																																			
Torque (ft-lb)	160	136	220	89.0	0.00	Sync. RPM	1800																																			
Efficiency (%) P.F. (%) Current (Amps) <table><thead><tr><th>LOAD</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>0%</td><td>91.0</td><td>44.0</td><td>40.0</td></tr><tr><td>20%</td><td>92.0</td><td>55.0</td><td>42.0</td></tr><tr><td>40%</td><td>93.0</td><td>68.0</td><td>48.0</td></tr><tr><td>60%</td><td>94.0</td><td>78.0</td><td>58.0</td></tr><tr><td>80%</td><td>94.0</td><td>82.0</td><td>70.0</td></tr><tr><td>100%</td><td>93.0</td><td>83.0</td><td>82.0</td></tr><tr><td>120%</td><td>92.0</td><td>83.0</td><td>102.0</td></tr></tbody></table>						LOAD	Efficiency (%)	P.F. (%)	Current (Amps)	0%	91.0	44.0	40.0	20%	92.0	55.0	42.0	40%	93.0	68.0	48.0	60%	94.0	78.0	58.0	80%	94.0	82.0	70.0	100%	93.0	83.0	82.0	120%	92.0	83.0	102.0	Frame	286			
						LOAD	Efficiency (%)	P.F. (%)	Current (Amps)																																	
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						Enclosure	DP																																			
						Construction	TDN																																			
						Voltage	200	V																																		
						Frequency	60	Hz																																		
						Design	B																																			
						LR Code letter	G																																			
						Service Factor	1.15																																			
						Temp Rise @ FL	45	° C																																		
Duty	CONT																																									
Ambient	40	° C																																								
Elevation	1,000	feet																																								
Rotor/Shaft wk ²	4.7	Lb-Ft ²																																								
Ref Wdg	K2864304	NONE																																								
Sound Pressure @ 1M	72	dBA																																								
VFD Rating	NONE																																									
Outline Dwg	B-SS207936-1512																																									
Conn. Diag	A-EE7300U																																									
Additional Specifications:																																										
0																																										
0																																										
EQUIV CKT (OHMS / PHASE)																																										
R1	R2	X1	X2	Xm																																						
0.0250	0.0210	0.1340	0.1640	3.1800																																						

Speed -Torque Curve

