

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 286TTDBD6026
Catalog No: GT0067
30,1800,DP,286T,3/60/230/460
Open Drip Proof (ODP)



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REGAL[®]



Nameplate Specifications

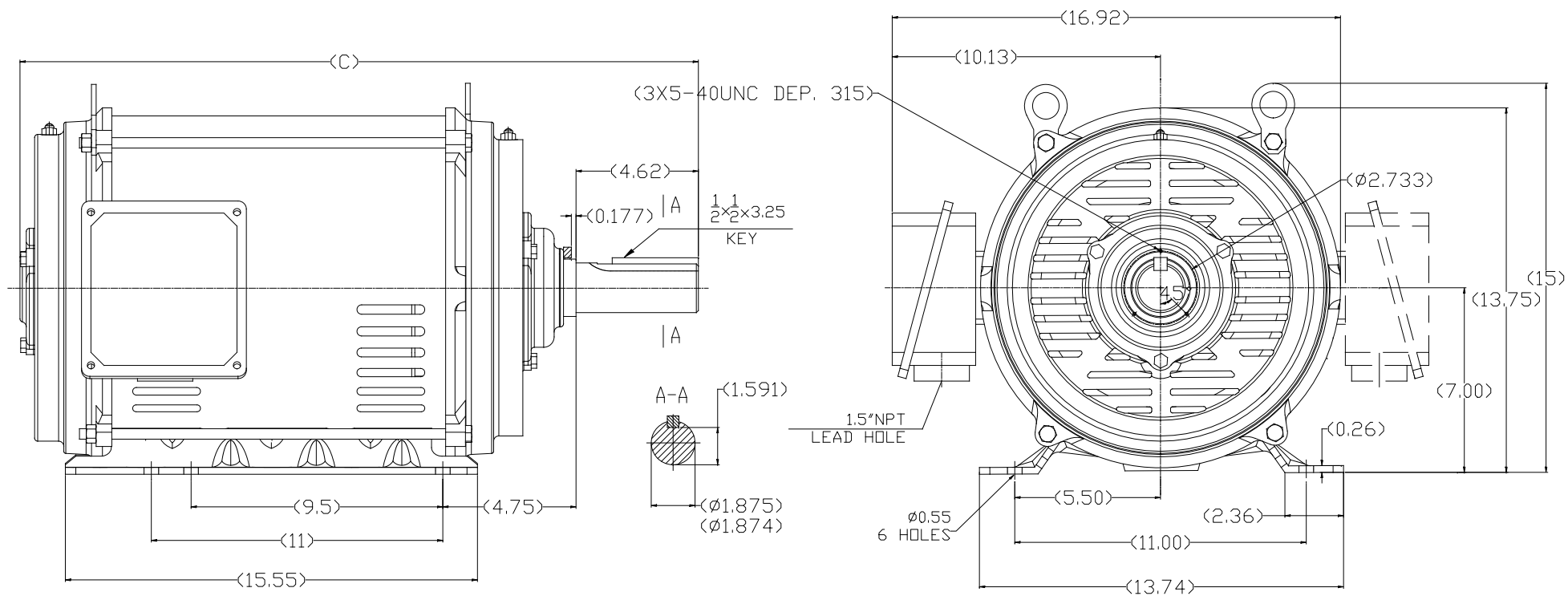
Output HP	30 Hp	Output KW	22.4 kW
Frequency	60 Hz	Voltage	230/460 V
Current	72.5/36.0 A	Speed	1775 rpm
Service Factor	1.15	Phase	3
Efficiency	94.1 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	286T
Enclosure	Drip Proof	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6311
Opp Drive End Bearing Size	6210	UL	Recognized
CSA	Y	CE	Y
IP Code	22		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	T
Overall Length	27.09 in	Shaft Diameter	1.875 in
Shaft Extension	4.62 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	B-SS620687	Connection Diagram	A-EE7308AA

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SS620687



284T	25.71	YES
286T	27.09	YES
FRAME	C	F1/F2

TOLERANCES UNLESS SPECIFIED		REGAL REGAL-BELOIT CORPORATION		DRAWN			
DEC.	INCHES	TITLE	SCALE	Xiaowei Zhu			
.X	±.1	284/286T FR.-DDP-ROLLED STEEL <td>1:1 <td>CHK</td> </td>	1:1 <td>CHK</td>	CHK			
.XX	±.03			APPD			
.XXX	±.005			REF			
.XXXX	±.0005	MAT'L.		FMF			
ND.	REVISION	BY & DATE	FINISH	PREV			
CHK	ANG	±1/2"					
RFP	Wuxl	CAD FILE					
DIST							
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			B	SS620687			



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION K	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC 60034-8		
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DRAWN BY LZ	Regal Beloit America, Inc.	
DATE 01-12-1994		
APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-2/1 DELTA-12 LEADS	
DATE 01-14-1994		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7308AA
		SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 286TTDBD6026 AA **WINDING#:** HE31804010 NONE 2
CONN. DIAGRAM: A-EE7308AA **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: B-SS620687

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30&25	22.4&18.7	1800	1775&1474	286T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	72.5/36&73/36 .5	Y START D RUN OR INV	CONTINUOU S	F7	1.15/1.15	40	3300

FULL LOAD EFF: 94.1&93.3	3/4 LOAD EFF: 94.1	1/2 LOAD EFF: 93.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 83.5&84	3/4 LOAD PF: 79	1/2 LOAD PF: 69	93.6	SQ CAGE INV RATED	30 / 15

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
88.8 LB-FT	430 / 215	178 LB-FT 200	200 LB-FT 225	40

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	4.8 LB-FT^2	175 LB-FT^2	20 SEC.	2	425 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 6311	BALL 6210	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

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

INVERTER TORQUE: VARIABLE 10:1
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

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DATE: 06/27/2017 02:32:54 AM
 FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 6/20/2017

286TTDBD626

Customer:
Attention:

FAREEDA DUDEKULA



Submital
Data @ 460 V

Load	Motor Load Data							
	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	15.0	17.0	22.0	28.6	36.2	41.2	44.7	215
Torque (ft-lb)	0.00	22.0	44.0	66.5	88.8	102	111	178
RPM	1800	1795	1788	1780	1775	1,770	1765	0
Efficiency (%)		90.2	93.6	94.1	94.1	94.1	93.6	
P.F. (%)	4.5	46.0	69.0	79.0	83.5	85.0	85.5	38.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (rpm)	0	900	1645	1775	1800
Current (Amps)	215	178	130	36.2	15.0
Torque (ft-lb)	178	148	200	88.8	0.00

Information Block

HP	30.0
Sync. RPM	1800
Frame	286
Enclosure	DP
Construction	TDC
Voltage	30/460#190/38 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	1,000 feet
Rotor/Shaft wkt	4.8 Lb-Fe
Rel Wdg	HE31804010 NONE
Sound Pressure @ 1M	75 dBA
VFD Rating	VARIABLE 10:1
Outline Dwg	B-SS620887
Conn. Diag	A-EET308AA
Additional Specifications:	
EQUIV CKT (OHMS / PHASE)	
R1	R2
0.1800	0.1130
X1	X2
0.7040	0.8980
Xm	Xm
	17.9360

