

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 286TTDR16038

Catalog No: E1009-P

XRI® General Purpose General Purpose Motor, 30 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V,
1800 & 1500 RPM, 286T Frame, DP



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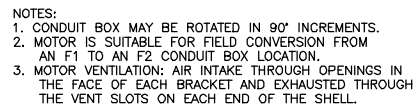
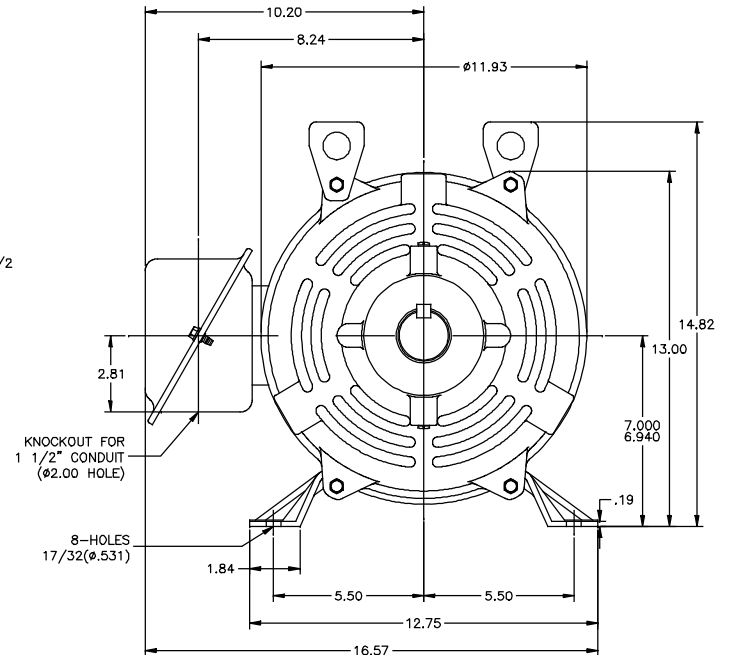
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	30 & 30 Hp
Output KW	22.4 & 22.4 kW	Voltage	230/460 & 200/400 V
Speed	1770 & 1450 rpm	Service Factor	1.15 & 1.15
Frame	286T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	94.1 & 91.7 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	73/36.5 & 85/42.5 A	Power Factor	82.4
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6207
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.211 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	25.75 in
Frame Length	15.50 in	Shaft Diameter	1.875 in
Shaft Extension	5.09 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	610-0003	Connection Drawing	80022801



MOTOR DESCRIPTION:
3 PHASE OPEN DRIPPROOF STEEL SHELL 254T OR 256T MOUNTING.
OTHER MOUNTING ORIENTATIONS ARE ACCEPTABLE; HOWEVER WHEN
MOUNTED OTHER THAN HORIZONTAL; MOTOR WILL NOT BE DRIPPROOF
AS DEFINED BY NEMA.

						TOLERANCES UNLESS SPECIFIED	 Regal Beloit America, Inc.	DRAWN UD 07/26/13		
						DEC. INCHES		CHK SR 07/26/13		
						.X ±0.1		APPD		
						.XX ±0.02		SCALE NTS		
						.XXX ±0.005		REF		
						.XXXX ±0.0005		FMM		
A	LABELS ADDED		NK 9/11/2018	ST	.XXXX	MAT'L		PREV		
NO.	REVISION		BY & DATE	CHK	ANG ±1	FINISH				
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 610-0003	SIZE B	DRAWING NO. 610-0003	REV.
							DIST			

CERTIFICATION DATA SHEET

Model#: 286TTDR16038 AN
 CONN. DIAGRAM: 80022801
 OUTLINE: 610-0003-1550

WINDING#: BJR4T07 NONE 3
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30&30	22.4&22.4	1800	1770&1450	286T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#200/ 400	73/36.5&85/42 .5	LINE OR INVERTER	CONTINUOU S	F4	1.15/1.15	40	3300

FULL LOAD EFF: 94.1&91.7	3/4 LOAD EFF: 94.7	1/2 LOAD EFF: 94	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82.4&83	3/4 LOAD PF: 80.7	1/2 LOAD PF: 73.2	90.2	SQ CAGE INV RATED	24.4 / 12.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
89.6 LB-FT	432 / 216	149 LB-FT 166	238 LB-FT 264	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
69 dBA	79 dBA	0 LB-FT^2	0 LB-FT^2	20 SEC.	0	0 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	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6311	6207						

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: 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

DATE: 06/21/2017 10:06:18 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet									
Date:	1/25/2019				286TTDR16038				
Customer:					marathon[®]				
Attention:					Motors				
Submitted by:	FAREEDA DUDEKULA				Submittal				
					Data @ 460 V				
Motor Load Data									
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.2	14.9	20.5	27.7	36.5	41.4	45.5	216	
Torque (ft-lb)	0.00	22.0	44.3	66.8	89.6	104	112	149	
RPM	1800	1792	1785	1777	1770	1,760	1758	0	
Efficiency (%)		92.2	94.0	94.7	94.1	93.9	92.9		
P.F. (%)	4.1	51.2	73.2	80.7	82.4	83.7	83.0	0.0	
Motor Speed Data									
	LR	Pull-Up	BD	Rated	Idle	Information Block			
Speed (RPM)	0	250	1600	1770	1800				
Current (Amps)	216	215	115	36.5	12.2				
Torque (ft-lb)	149	145	238	89.6	0.00				
						HP		30.0	
						Sync. RPM		1800	
						Frame		286	
						Enclosure		DP	
						Construction		TDR	
						Voltage		230/460#200/400 V	
						Frequency		60 Hz	
						Design		B	
						LR Code letter		G	
						Service Factor		1.15	
						Temp Rise @ FL		50 °C	
						Duty		CONT	
						Ambient		40 °C	
						Elevation		3,300 feet	
						Rotor/Shaft wk ²		0.00 Lb-Ft ²	
Ref Wdg		BJR4T07 NONE							
Sound Pressure @ 1M		69 dBA							
VFD Rating		VARIABLE 10:1							
Outline Dwg		610-0003-1550							
Conn. Diag		80022801							
Additional Specifications:									
0									
0									
EQUIV CKT (OHMS / PHASE)									
R1		R2		X1		X2		Xm	
0.0000		0.0000		0.0000		0.0000		0.0000	

Speed -Torque Curve