

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 286TTDP7689
Catalog No: Y216
20,1200,DP,286T,3/60/230/460/796
Other Purpose



Regal and Marathon are trademarks of Regal Beloit Corporation or one of its affiliated companies.
©2018 Regal Beloit Corporation, All Rights Reserved. MC017097E

REGAL[®]



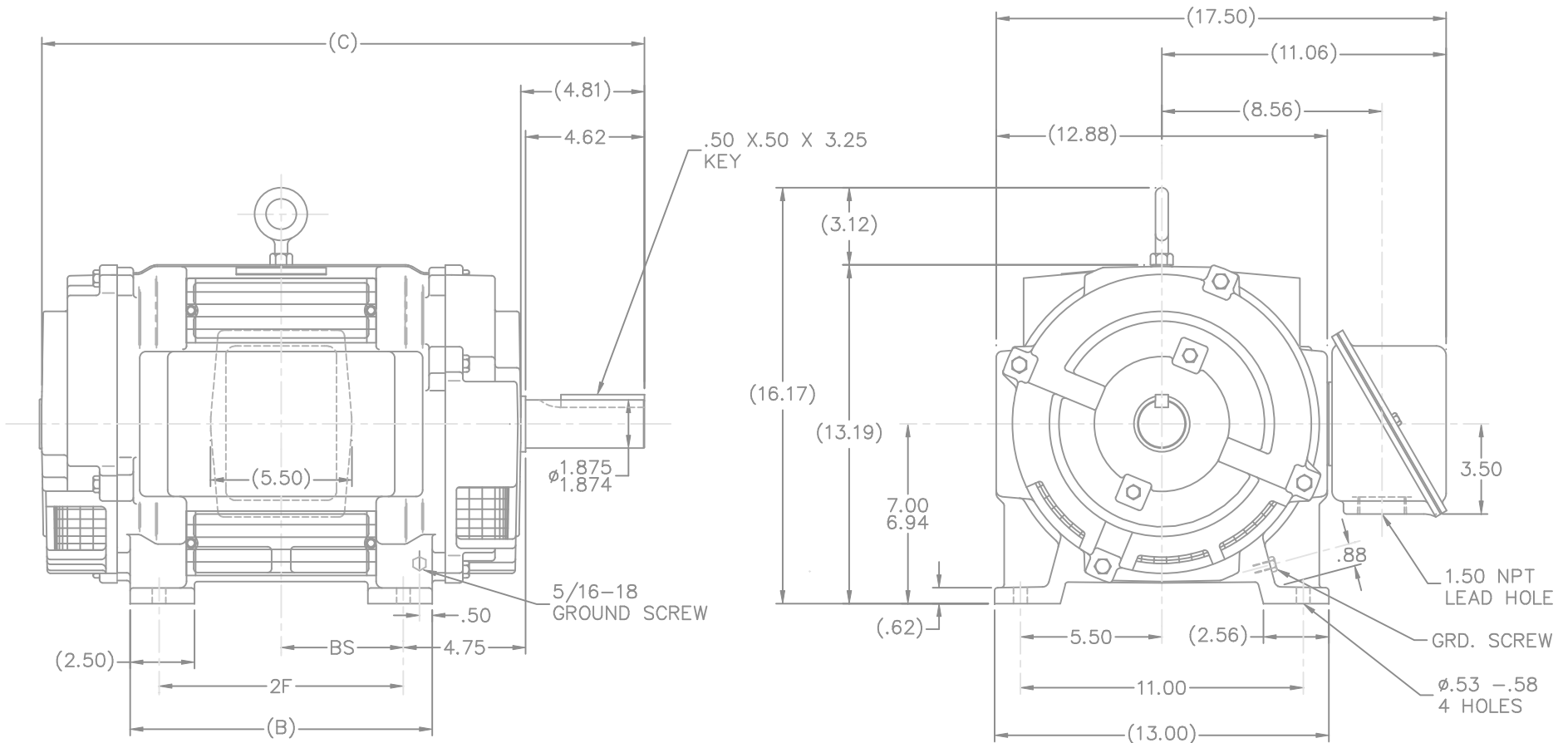
Nameplate Specifications

Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	230/460/796 V
Current	53/26.5/15.3 A	Speed	1130 rpm
Service Factor	1.15	Phase	3
Efficiency	87.5 %	Duty	OIL WELL
Insulation Class	F	Design Code	D
KVA Code	F	Frame	286T
Enclosure	DP	Overload Protector	NOT
Ambient Temperature	40 °C	Drive End Bearing Size	6311
Opp Drive End Bearing Size	6210	UL	No
CSA	N	CE	N
IP Code	23		

Technical Specifications

Electrical Type	SQ CAGE IND RUN	Starting Method	ACROSS THE LINE
Poles	6	Rotation	REV
Mounting	RIGID	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	CAST IRON	Shaft Type	T
Overall Length	24.94 in	Frame Length	14.25 in
Shaft Diameter	1.88 in	Shaft Extension	4.81 in
Assembly/Box Mounting	F2/F1 CAPABLE		
Outline Drawing	B-SS200374-1425	Connection Diagram	A-EE7326C

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 04/05/2018



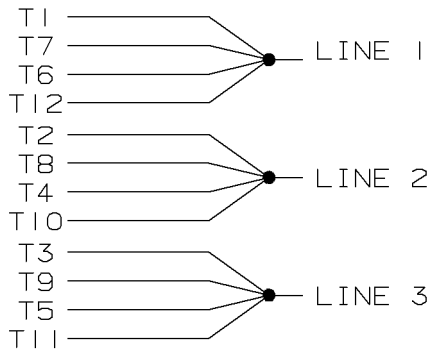
- NOTES:
 1. BOX CAN BE ROTATED IN 90° STEPS
 2. BOX CAN BE MOUNTED F1 ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR

(B-SS200030)

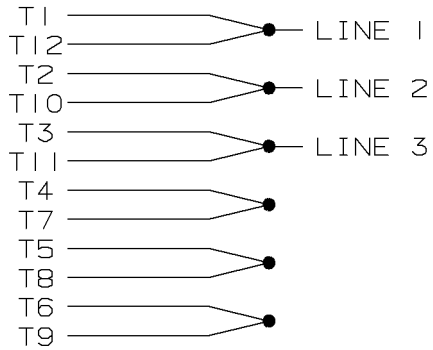
DASH	FRAME	B	C	2F	BS
1275	284T	11.75	23.44	9.50	4.75
1425	286T	13.25	24.94	11.00	5.50

		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN JL 04-27-1992	
		DEC.	INCHES			CHK	ML 05-07-1992
4	REDRAWN IN AUTOCAD	TAT	06-13-2005	ML	.X ±.1	APPD	GK 05-07-1992
3	SHAFT HEIGHT DIMENSION WAS 7.00/6.97 CN 16763	DRS	02-24-2000		.XX ±.03	SCALE	1=4
2	REVISED TO F2 MTG	DA	09-22-1992		.XXX ±.005	REF	
1	NEW DRAWING - DEV. ENG./E.B.	JL	05-12-1992		.XXXX ±.0005	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	ss200374
				DIST	LB	SIZE	DRAWING NO. PAGE OF REV.
						B	SS200374 4

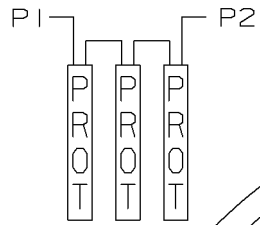
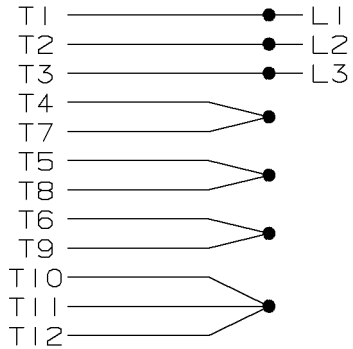
LOW VOLTAGE



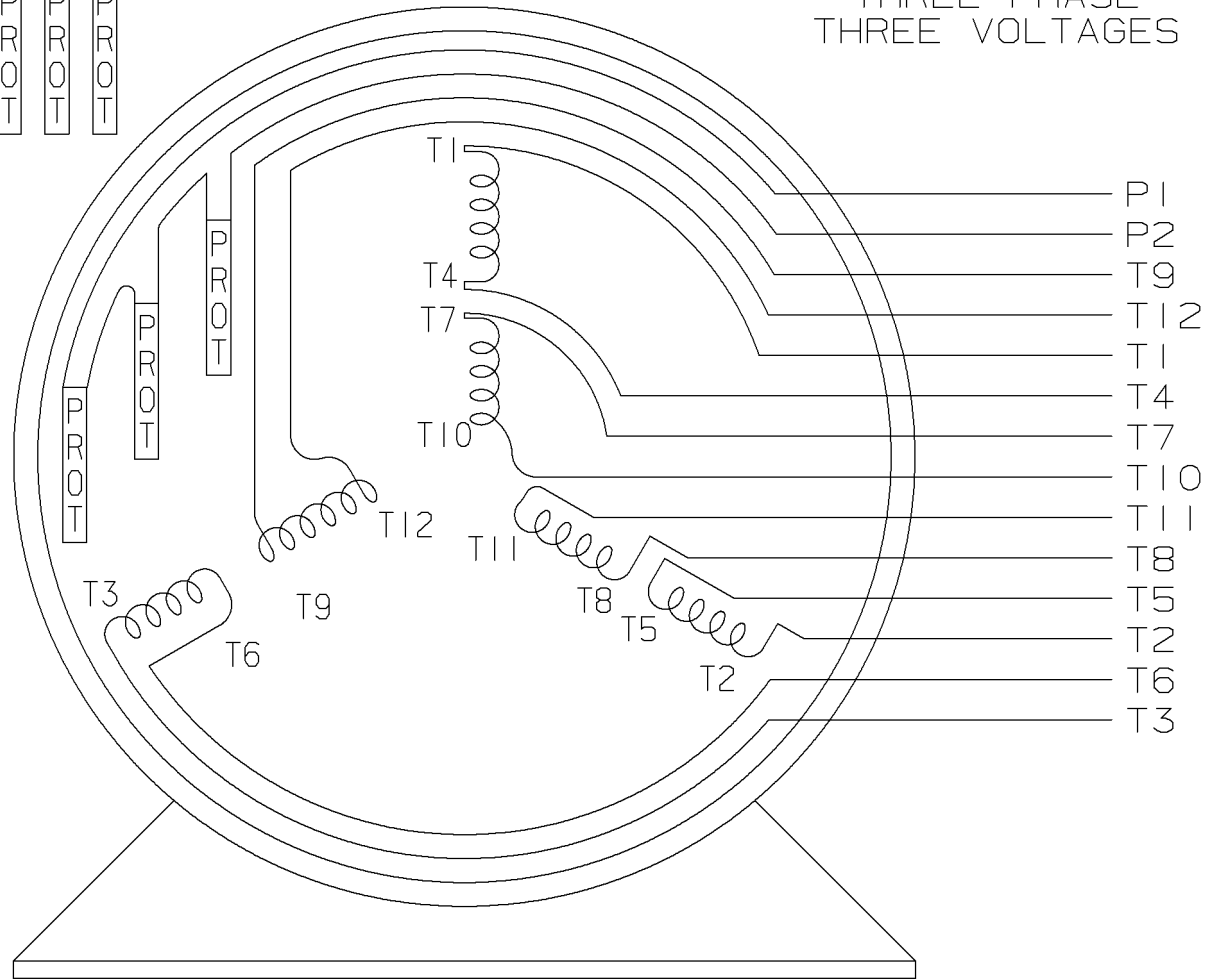
MED. VOLTAGE



HIGH VOLTAGE



THREE PHASE
THREE VOLTAGES



L.V. 2 DELTA M.V. 1 DELTA H.V. 1Y

T6F

				<input checked="" type="checkbox"/> MAX. SURFACE ROUGHNESS UNLESS NOTED OTHERWISE		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX± XXX±.005 XXXX±.0005 ANGLES±				
				MATL SPEC				DRAWN BY BLR		03-09-1998
				FINISH				CHKD BY ML		03-26-1998
5		03-26-1998		REDRAWN ON CADD, NO CHANGE		BLR		APPD BY GK		03-26-1998
REV	DATE	CHANGE			NAME	PART NAME CONNECTION DIAGRAM				DRWG NO
						3Ø - 12 LEAD				A- EE7326C
SHOP BOOK		PURCHASED		DISTRIBUTION - WA - LB - WP - LM			CADD FILE NO.		EE7326C	

Data Sheet

Date: 16-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



286TTDP7689

Submittal

Data @ 460 V

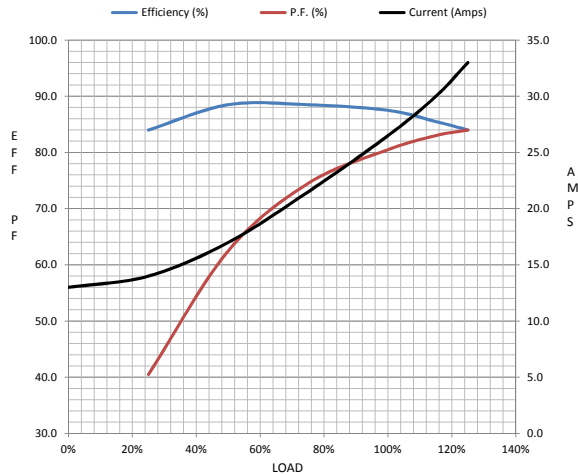
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	13.0	14.0	17.0	21.5	26.5	30.0	33.0	134
Torque (ft-lb)	0.00	22.0	45.0	68.0	92.5	106	118	282
RPM	1200	1185	1170	1150	1130	1,120	1110	0
Efficiency (%)		84.0	88.5	88.5	87.5	85.5	84.0	
P.F. (%)	5.5	40.5	62.5	74.5	80.5	83.0	84.0	68.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	400	615	1130	1200
Current (Amps)	134	125	122	26.5	13.0
Torque (ft-lb)	282	285	307	92.5	0.00

Information Block				
HP	20.0			
Sync. RPM	1200			
Frame	286			
Enclosure	DP			
Construction	TDP			
Voltage	230/460/796 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	70 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	3.1 Lb-Ft ²			
Ref Wdg	256685 NONE			
Sound Pressure @ 1M	66 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS200374-1425			
Conn. Diag	A-EE7326C			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.3080	0.6570	1.2210	0.8360	21.4280



Speed -Torque Curve

