

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 505UTDS16076

Catalog No: M759

200 HP, Vertical Solid Shaft P-Base Motors, 3 phase, 1200 RPM, 460 V, 505 PV Frame, Drip Proof
Vertical Solid Shaft P-Base Motors



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REGAL

Nameplate Specifications

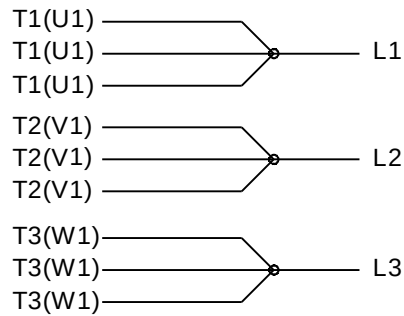
Output HP	200 Hp	Output KW	149.0 kW
Frequency	60 Hz	Voltage	460 V
Current	240.0 A	Speed	1188 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	505 PV	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	7319 2
UL	Recognized	CSA	Y
CE	Y	IP Code	22

Technical Specifications

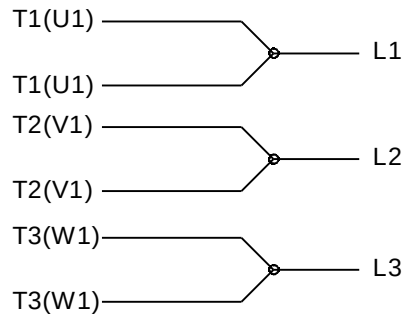
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	.024 Ohms	Mounting	Round
Motor Orientation	Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	P	Overall Length	38.76 in
Frame Length	21.00 in	Shaft Diameter	2.625 in
Shaft Extension	5.00 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	EE7300U	Outline Drawing	TBD

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IF MOTOR HAS 9 LEADS

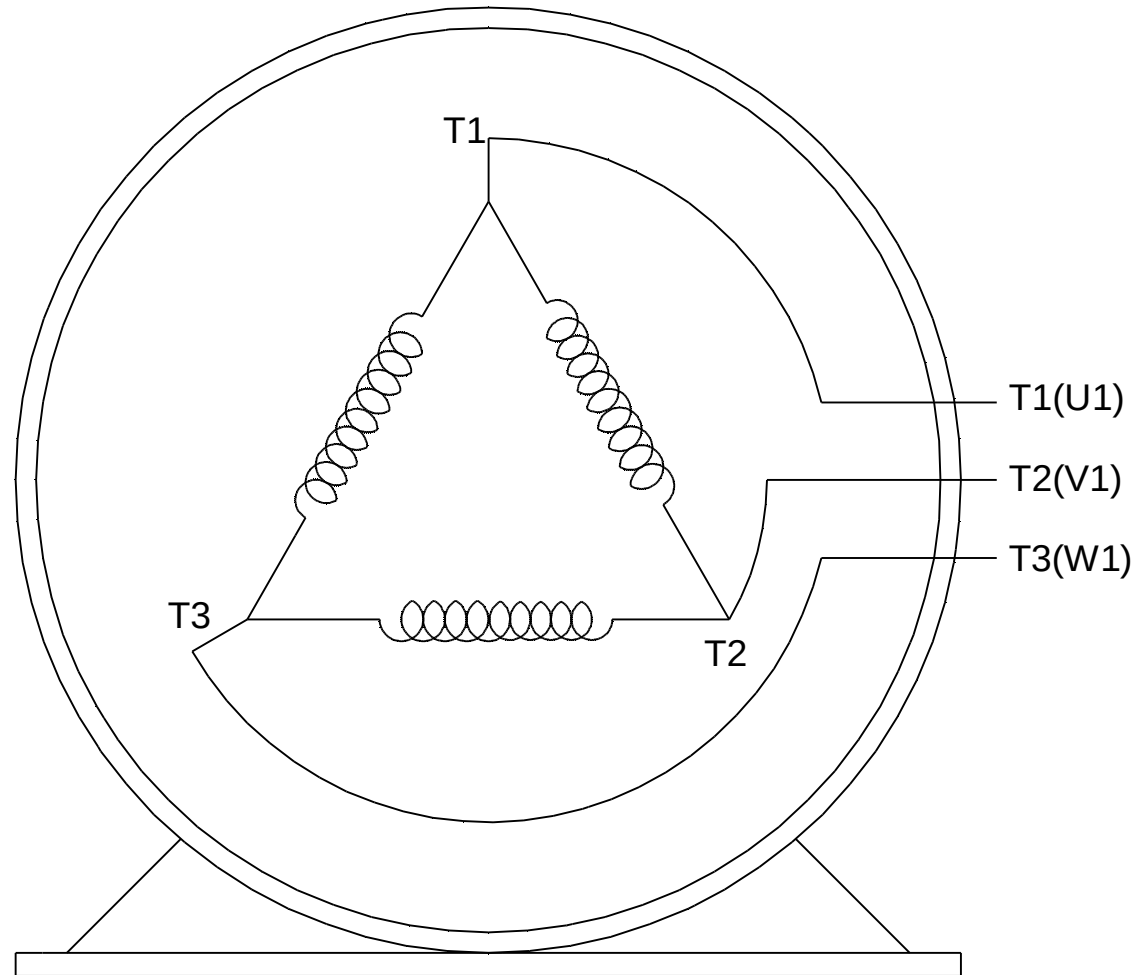
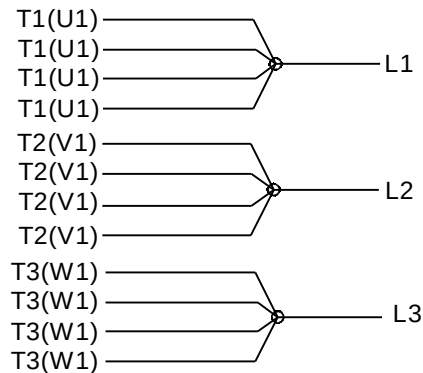


IF MOTOR HAS 6 LEADS



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^{5.1} INCH mm mm SHOWN IN [BRACKETS]		DRAWN BY DRS	REGALTM 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		
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			THIRD ANGLE PROJECTION		SIZE A		DRAWING NUMBER EE7300U



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____ CUSTOMER P.O. #: _____
ORDER #: _____ REFERENCE MODEL #: 505UTDS16076
CONN. DIAGRAM: A-EE7300U CAT #: M759
OUTLINE: B-SS510025-2100 CUSTOMER PART #: _____
WINDING: T505661 NONE 1 MOUNTING: F1/F2 CAPABLE
SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
200	149	1200	1188	505 PV	DP	TDS	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	240	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.4	1/2 LD EFF	95.0	GTD EFF	94.5	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	81.0	3/4 LD PF	77.0	1/2 LD PF	67.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
885 LB-FT	1,450	1,700 LB-FT 192%	2,100 LB-FT 237%	65	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
78 dBA	87 dBA	145 LB-FT²	0 LB-FT²	0 SEC.	0	2200 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
P-BASE	STANDARD	ROUND	SHAFT DOWN	NO	NONE	YES	RODENT	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	EM ANGUL	POLYREX EM	P	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6316	7319 2						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.016	0.012	0.109	0.172	2.723	0.150	DE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

PREPARED BY: FAREEDA DUDEKULA	BRAKE: NONE
DATE: 9/11/2018	NONE NONE
	FT-LB: NA
	VOLTAGE: NONE HZ:
FORM: 3531 REV_4 2/27/06	UL: V-INS, CONST UL REC

Data Sheet

Date: 11/30/2018

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



505UTDS16076

Submittal

Data @ 460 V

Motor Load Data

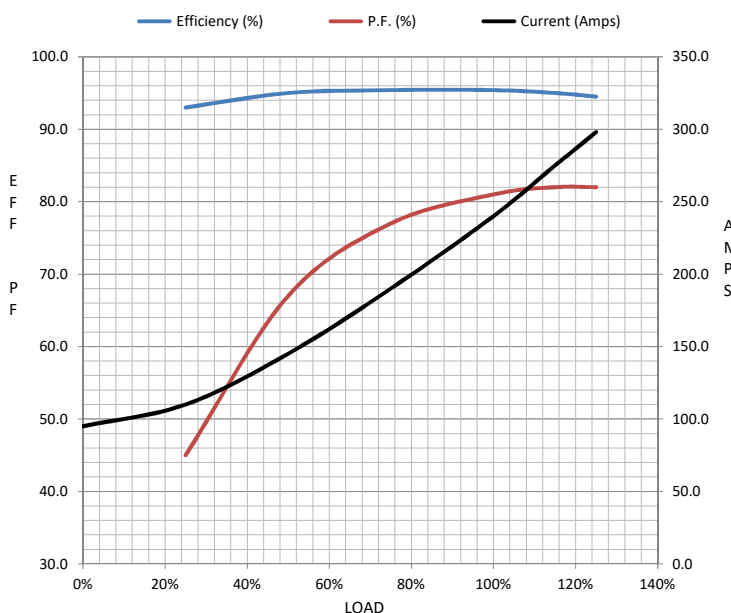
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	95.0	110	145	190	240	275	298	1,450	
Torque (ft-lb)	0.00	220	440	662	885	1,020	1,110	1,700	
RPM	1200	1196	1194	1190	1188	1,186	1184	0	
Efficiency (%)		93.0	95.0	95.4	95.4	95.0	94.5		
P.F. (%)	3.0	45.0	67.0	77.0	81.0	82.0	82.0	32.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1125	1188	1200
Current (Amps)	1,450	1,250	850	240	95.0
Torque (ft-lb)	1,700	1,500	2,100	885	0.00

Information Block

HP	200.0			
Sync. RPM	1200			
Frame	505			
Enclosure	DP			
Construction	TDS			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	145 Lb-Ft²			
Ref Wdg	T505661 NONE			
Sound Pressure @ 1M	78 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS510025-2100			
Conn. Diag	A-EE7300U			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0160	0.0120	0.1090	0.1720	2.7230



Speed -Torque Curve

