

PRODUCT INFORMATION PACKET



Model No: 508UTDS16078
Catalog No: M763
250,1200,DP,508P,3/60/460
Vertical Solid Shaft P-Base



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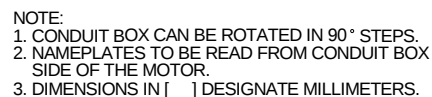


Nameplate Specifications

Output HP	250 Hp	Output KW	187.0 kW
Frequency	60 Hz	Voltage	460 V
Current	300.0 A	Speed	1188 rpm
Service Factor	1.15	Phase	3
Efficiency	95.8 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	508 PV
Enclosure	Drip Proof	Overload Protector	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

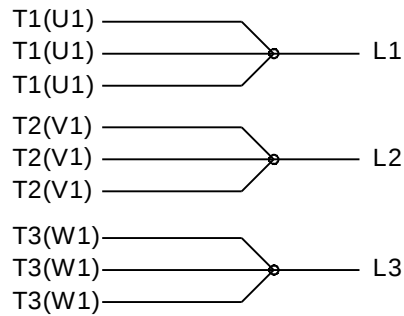
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Mounting	Round	Motor Orientation	SHAFT DOWN
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Cast Iron	Shaft Type	P
Overall Length	45.76 in	Frame Length	8.00 in
Shaft Diameter	2.625 in	Shaft Extension	5.00 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	B-SS510025-2800	Connection Diagram	A-EE7300U



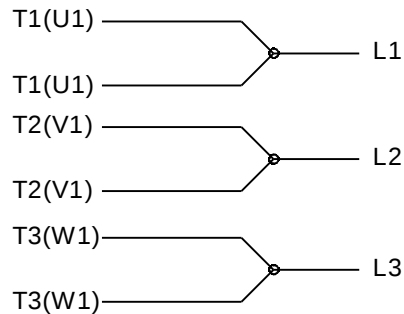
		Regal Beloit America, Inc.	
DESCRIPTION		OUTLINE	
500P FR. - BB - TS - DR. PR. - P'BASE - SCREENS		500P FR. - BB - TS - DR. PR. - P'BASE - SCREENS	
MATERIAL		PROCESS/FINISH	
SIZE	DRAWING NUMBER	SHEET	1 OF 1
B	SS510025	1 OF 1	

DASH	FRAME	C	AG	BV
2100	505P	38.76 [984.50]	33.77 [857.76]	16.52 [419.61]
2800	508P	45.76 [1162.30]	40.77 [1035.56]	20.02 [508.51]

IF MOTOR HAS 9 LEADS

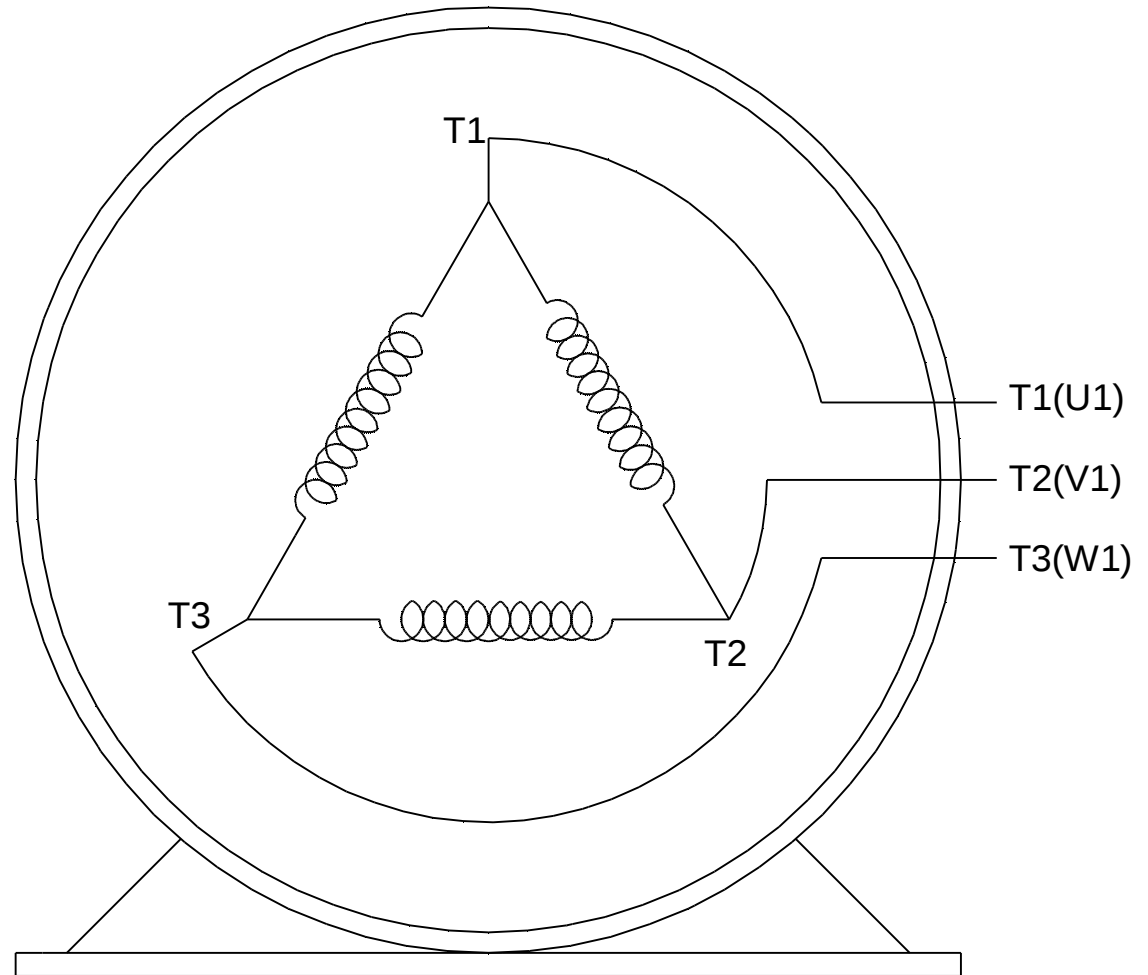
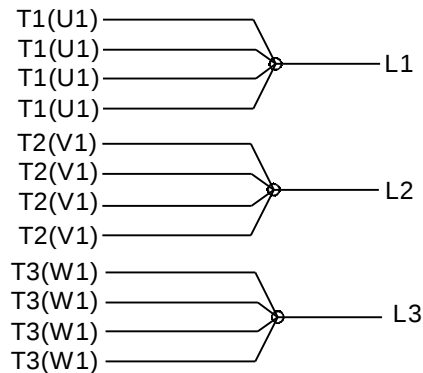


IF MOTOR HAS 6 LEADS



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		
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			THIRD ANGLE PROJECTION		SIZE A		DRAWING NUMBER EE7300U
					SHEET 1 OF 1		



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 #:	508UTDS16078
CONN. DIAGRAM:	A-EE7300U	CAT #:	M763
OUTLINE:	B-SS510025-2800	CUSTOMER PART #:	
WINDING:	T508651	MOUNTING:	F1/F2 CAPABLE
SPEED:			

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN					
250	187	1200	1188	508 PV	DP	TDS	G	B					
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.				
	3	60	460	300	ACROSS THE LINE	CONT	F	1.15	40	3300			
F.L. EFF		95.8	3/4 LD EFF	95.8	1/2 LD EFF	95.4	GTD EFF	ELECT. TYPE					
F.L. PF		81.0	3/4 LD PF	77.0	1/2 LD PF	67.0	95.0	SQ CAGE IND RUN					
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)					
1.105	LB-FT	1.825		2.250	LB-FT	204%	2.700	LB-FT	244%	70			
@ 3 FT.		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME		STARTS/HOUR	MOTOR WGT		
78	DBA	87		DBA	172	LB-FT²	0	LB-FT²	15	SEC.	0	2750	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	POLYREX EM	P	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON									
BALL BEARING	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									
0.011	0.01	0.085	0.14	2.215	0.150	DE									
* N O T E S															
				INVERTER TORQUE: NONE											
				INV. HP SPEED RANGE: NONE											
				ENCODER: NONE											
				NONE											
				BRAKE: NONE											
				FT-LB: NONE											
				VOLTAGE: NONE											
				UL: V/INS, CONST UL REC											
				HZ:											
PREPARED BY: FAREEDA DUDEKULA															
DATE: 9/11/2018															
FORM: 3531 REV 4 2/27/06															

Data Sheet

Date: 9/11/2018

Customer:

Attention:

Submitted by:

FAREEDA DUDEKULA

508UTDS16078



Submittal

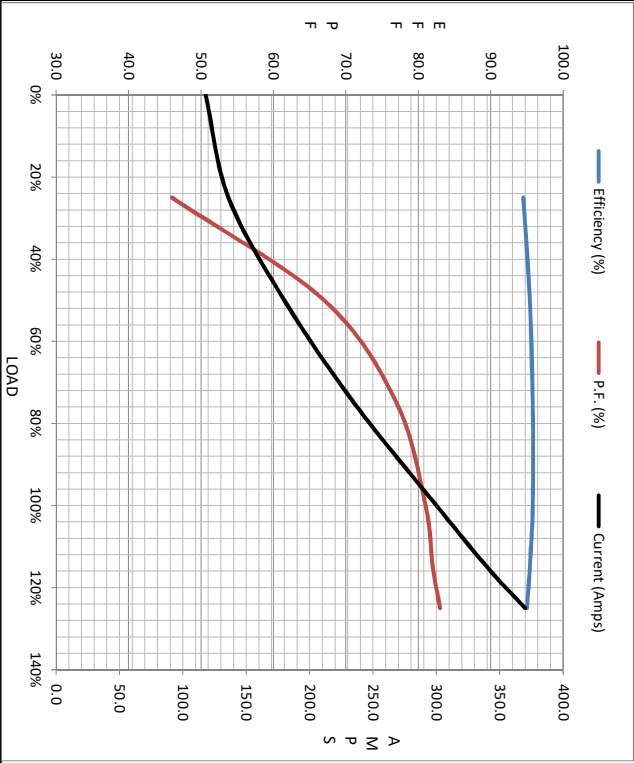
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	118	136	180	235	300	340	370	1,825
Torque (ft-lb)	0.00	275	550	828	1,105	1,275	1,386	2,250
RPM	1200	1196	1194	1190	1188	1,186	1184	0
Efficiency (%)		94.5	95.4	95.8	95.8	95.4	95.0	
P.F. (%)	2.5	46.0	67.0	77.0	81.0	82.0	83.0	34.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	600	1125	1188	1200		
Current (Amps)	1,825	1,600	1,100	300	118		
Torque (ft-lb)	2,250	2,000	2,700	1,105	0.00		
						HP	250.0
						Sync. RPM	1200



Frame	508182TFC6080			
Enclosure	DP			
Construction	TDS			
Voltage	460		V	
Frequency	60		Hz	
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	70		° C	
Duty	CONT			
Ambient	40		° C	
Elevation	1,000 feet			
Rotor/Shaft wk²	172		Lb-Ft²	
Ref Wdg	T508651 NONE			
Sound Pressure @ 1M	78		dBA	
VFD Rating	NONE			
Outline Dwg	B-SS510025-2800			
Conn. Diag	A-EE7300U			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0110	0.0100	0.0850	0.1400	2.2150

Speed - Torque Curve

