

PRODUCT INFORMATION PACKET



Model No: 199686.00

Catalog No: 199686.00

Ultimate e™ General Purpose Motor, 2 & 1.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1200 & 1000 RPM, 184T Frame, DP



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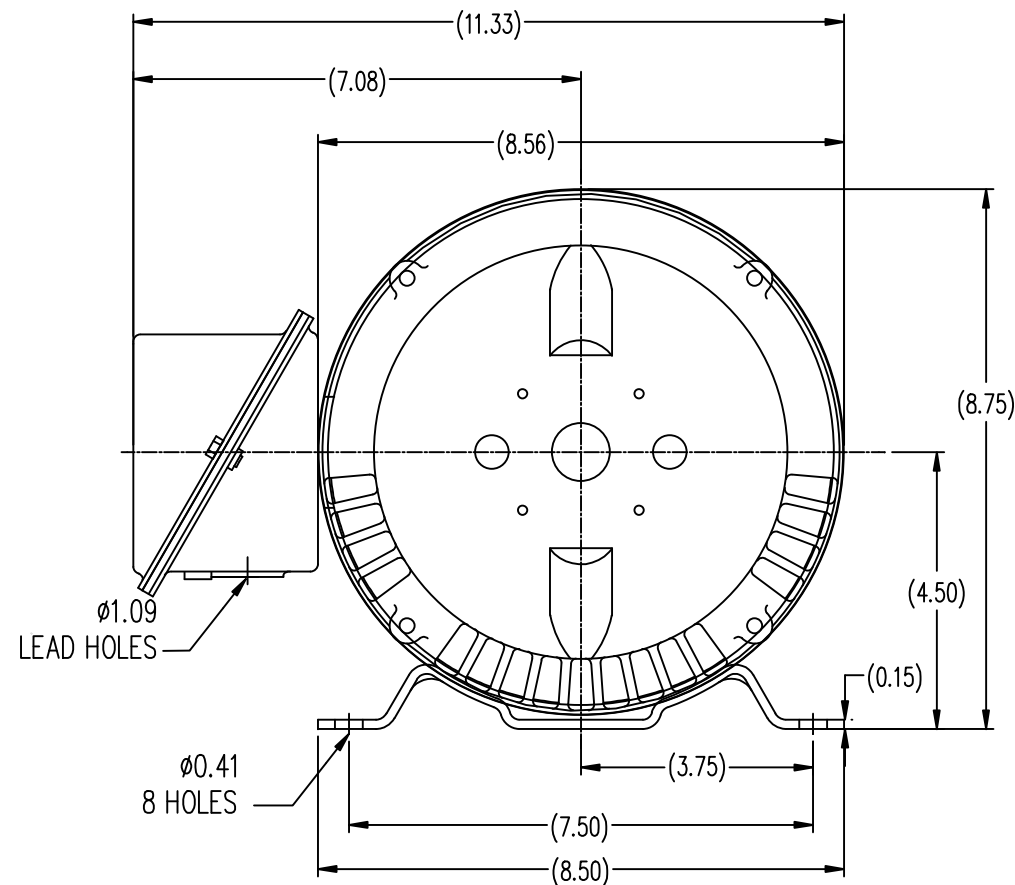
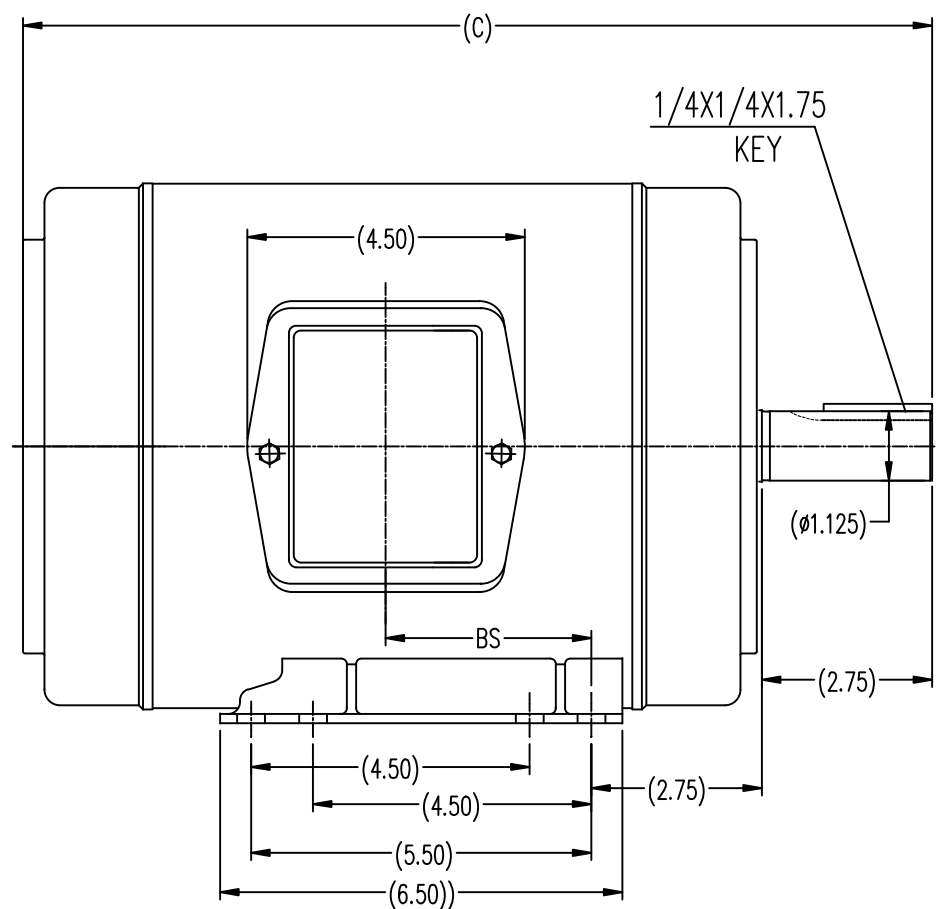


Nameplate Specifications

Phase	3	Output HP	2 & 1.50 Hp
Output KW	1.5 & 1.1 kW	Voltage	230/460 & 190/380 V
Speed	1180 & 983 rpm	Service Factor	1.15 & 1.15
Frame	184T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	87.5 & 86.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	5.8/2.9 & 5.2/2.6 A	Power Factor	74
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6203
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	6	Rotation	Reversible
Resistance Main	5.45 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	13.72 in
Frame Length	7.75 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	SS620292-184T	Connection Drawing	EE7308



182T	13.72	2.75
184T	14.72	3.25
FRAME	C	BS

		TOLERANCES UNLESS SPECIFIED			DRAWN ZYH 03-05-2010
DEC.	INCHES	DEC.	INCHES		
.X	±.1	.XX	±.03	TITLE OUTLINE 182/184T FR ODP-ROLL STEEL	CHK HZJ 03-05-2010
.XXX	±.005	.XXX	±.0005		APPD CL 03-05-2010
.XXXX	±.0005	.XXXX	±.0005		SCALE 1=2
1	CORRECTED DIMENSIONS	MOL 8/30/2011		MAT'L	REF
NO.	REVISION	BY & DATE	CHK	ANG	FINISH
			RFP		CAD FILE SS620292
			DIST		SIZE B
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					REV. 1



NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN RM 11/20/1990	
					DEC.	INCHES		CHK	ML 11/21/1990
5	CHG TO REGAL LOGO	SL 09/10/2015	AB					APPD	SAS 04/24/2003
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1			SCALE	1=1
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02			REF	
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005			FMF	
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005			PREV	
					±7'30"				
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					DIST WP		A	EE7308	5



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7308
OUTLINE: SS620292
WINDING: CHT18460008

CAT #: 199686.00

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
2	1.5	1200	1180	184T	DP	TDB	J	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	5.8/2.9&5.2/2.6	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	87.5	3/4 LD EFF	86.5	1/2 LD EFF	84.0	GTD EFF	86.5	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	74.0	3/4 LD PF	68.0	1/2 LD PF	56.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
8.9 LB-FT	19.5	14.5 LB-FT 163%	23.0 LB-FT 258%	45

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
54 dBA	63 dBA	0.50 LB-FT²	32 LB-FT²	25 SEC.	2	90 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6206 6203						

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
3.124	1.704	10.224	13.774	166.14	0.150	ODE

* N O T E S *		INVERTER TORQUE: VARIABLE 10:1 INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

DATE: 2/1/2018

BRAKE: NONE
 NONE
FT-LB: NA
VOLTAGE: NONE
UL: Y-(LEESON UL REC)

Data Sheet

Date: 2/1/2018

199686.00



Data @ 460 V

Motor Load Data

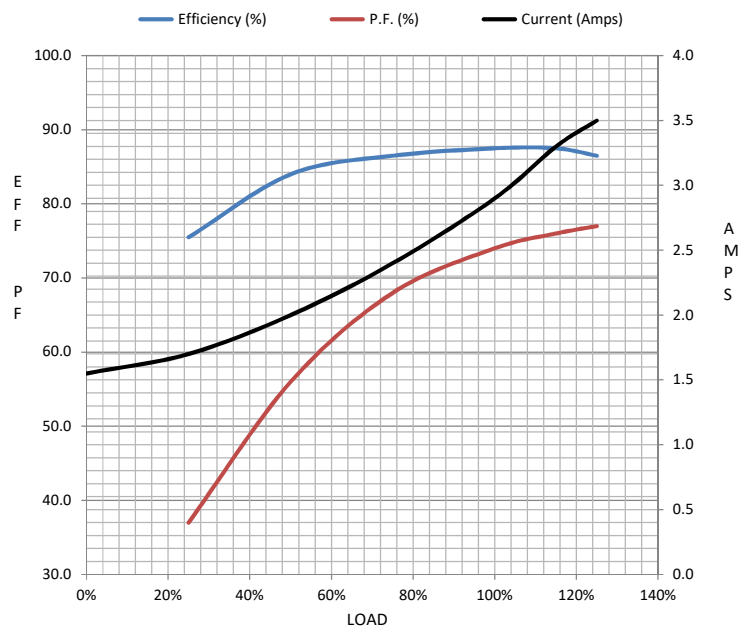
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.55	1.70	2.00	2.40	2.90	3.3	3.5	19.5	
Torque (ft-lb)	0.00	2.20	4.4	6.7	8.9	10.3	11.2	14.5	
RPM	1200	1195	1190	1185	1180	1,178	1175	0	
Efficiency (%)		75.5	84.0	86.5	87.5	87.5	86.5		
P.F. (%)	9.0	37.0	56.0	68.0	74.0	76.0	77.0	38.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1075	1180	1200
Current (Amps)	19.5	18.0	11.0	2.90	1.55
Torque (ft-lb)	14.5	12.0	23.0	8.9	0.00

Information Block

HP	2.0			
Sync. RPM	1200			
Frame	182			
Enclosure	DP			
Construction	TDB			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	J			
Service Factor	1.15			
Temp Rise @ FL	45	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.50	Lb-Ft²		
Ref Wdg	CHT18460008 NONE			
Sound Pressure @ 1M	54	dBA		
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS620292			
Conn. Diag	EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
3.1240	1.7040	10.2240	13.7740	166.1400



Speed - Torque Curve

