

PRODUCT INFORMATION PACKET



Model No: C6T34FC124A

Catalog No: 119453.00

119453.00..1.5HP..3490RPM.56J.TEFC.230/460V.3PH.60HZ.CONT.40C.1.15SF.C
FACE.C6T34FC124.....JET PUMP.NONE.....

Jet Pump



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Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	230/460 V
Current	4.0/2.0 A	Speed	3490 rpm
Service Factor	1.15	Phase	3
Efficiency	84 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	M	Frame	56J
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6205
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	Y
IP Code	43		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Mounting	Round	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Rolled Steel	Shaft Type	J
Overall Length	12.66 in	Frame Length	6.50 in
Shaft Diameter	0.625 in	Shaft Extension	2.44 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	028824-650	Connection Diagram	005010.01

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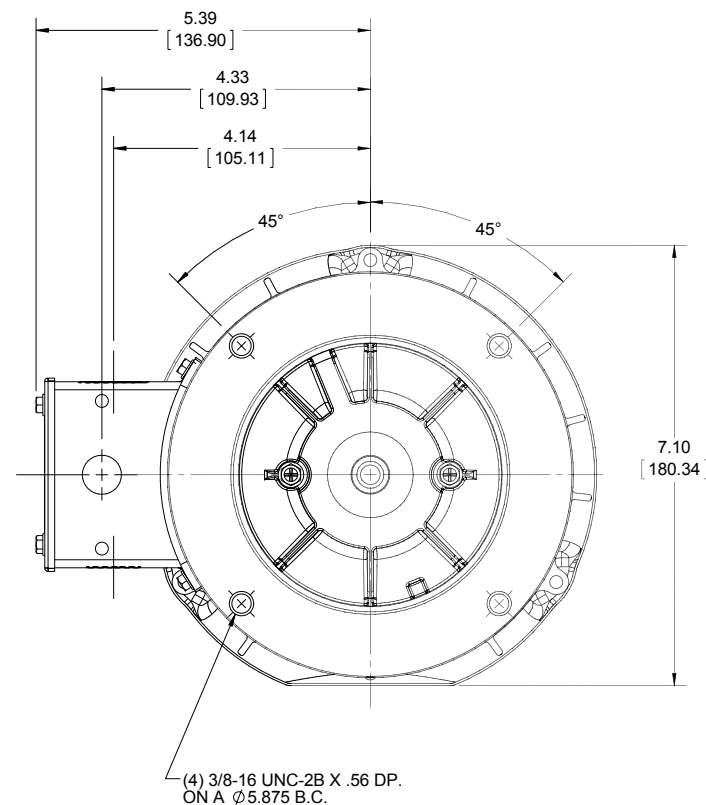
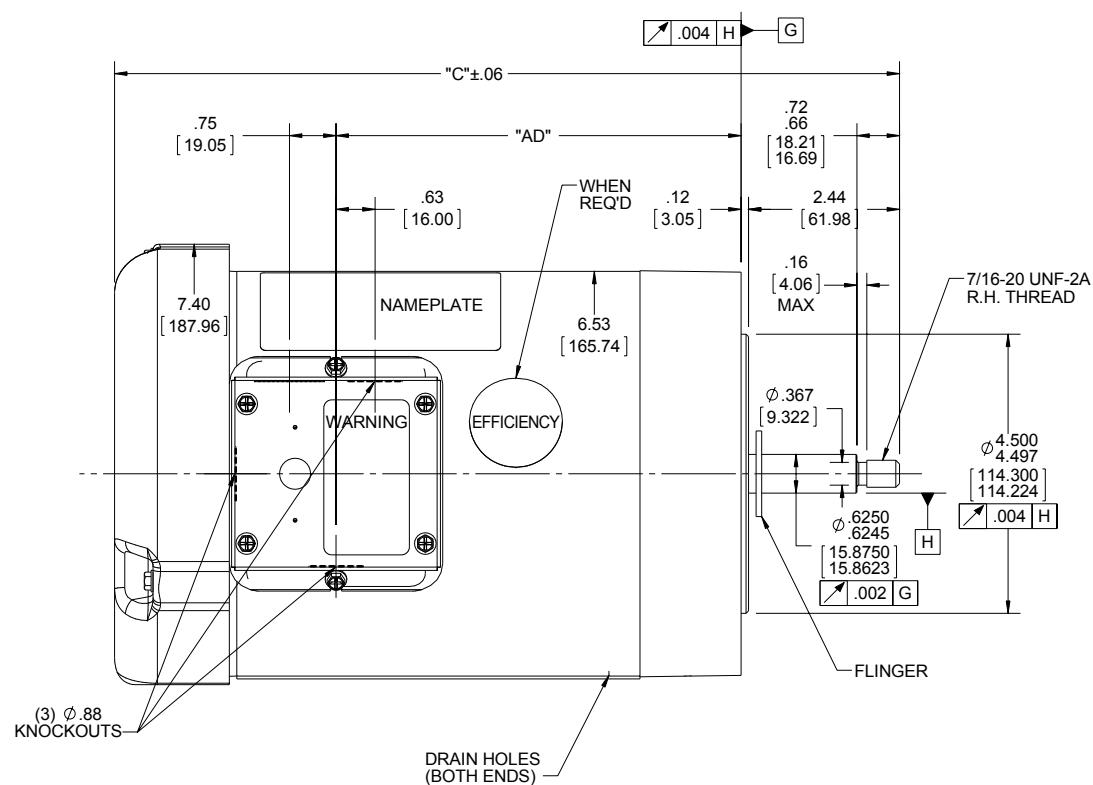
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B

B



NOTES:

1. GASKETS THROUGHOUT
2. FLINGER ON SHAFT
3. STAINLESS STEEL SHAFT EXTENSION

DASH NO.	"C"	"AD"
800	14.16	7.07
750	13.66	7.57
700	13.16	6.07
650	12.66	6.57
600	12.16	7.07
550	11.66	7.57
500	11.16	8.07

DRAWING REVISION C	REVISION BY CHRIS FISHER	DATE 8/3/2015
ECO ECO-0079931	APPROVED BY	DATE
ECO DESCRIPTION ADDED ITEM # 750 & #800		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:	ANGLE ±0.5°
DEC. INCH. mm	
.X ±0.1 [±2.5]	
.XX ±0.01 [±0.25]	
.XXX ±0.005 [±0.127]	
.XXXX ±0.0005 [±0.0127]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [51] MACHINED SURFACES: 125 3.2 INCH mm	
mm SHOWN IN [BRACKETS]	

DRAWN BY CHRIS FISHER	DATE 8/3/2015
APPROVED BY	DATE
REFERENCE 028544	THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.	
DESCRIPTION OUTLINE 56 FRAME - T.E.F.C. - "C" FACE	
MATERIAL JET PUMP	PROCESS/FINISH
SIZE B	DRAWING NUMBER 028824
SHEET 1 OF 1	

4

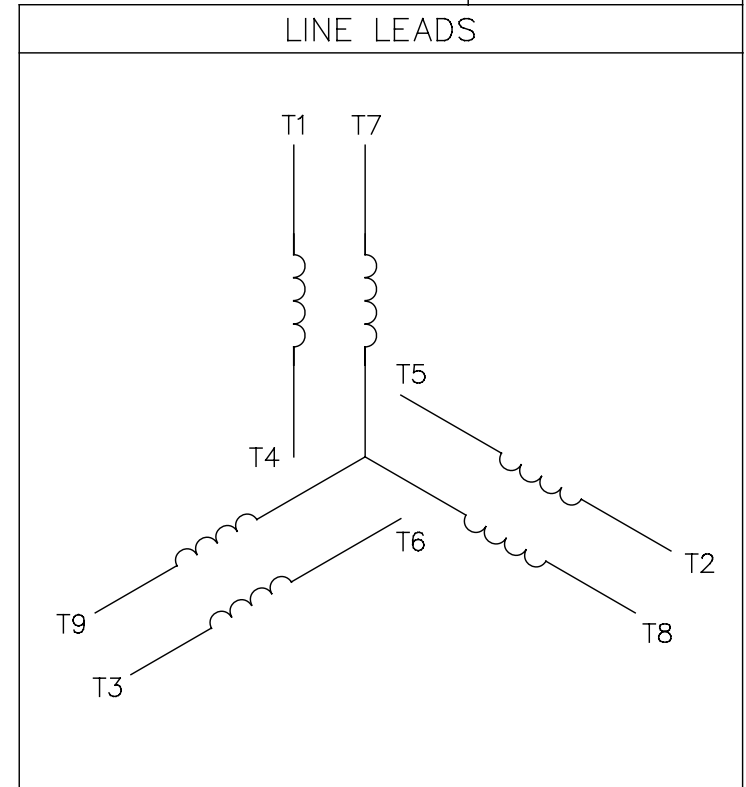
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005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.			DRAWN RDW 04/12/02					
				DEC.	INCHES				CHK					
				.X	±.1				APPD					
				.XX	±.01				SCALE 1=1					
				.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR			REF FIG.2-51					
A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY	.XXXX	±.0005				MAT'L. DECAL - 004014			FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	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		04/12/02		CAD FILE		00501001		SIZE	DRAWING NO.		REV.
			DIST		BRF-NLV						A	005010-01		A



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005010.01
OUTLINE: 028824-650
WINDING: T632173

CAT #: 119453.00

FR 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN				
1.5	1.1	3600	3500	56J	TEFC	TFR	M	B				
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.			
3	60/50	230/460#190/380	4.05/2.05&3.6/1.8	LINE OR INVERTER	CONT	F	1.15	40	3300			
F.L.EFF		84.0	3/4 LD EFF	81.9	1/2 LD EFF	78.9	ELECT. TYPE					
F.L.PF		83.6	3/4 LD PF	76.5	1/2 LD PF	64.7	SQ CAGE INVERTED					
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)				
2.25	LB-FT	20.1		8.9	LB-FT	396%	10.7	LB-FT	476%	50		
PRESSURE @ 3		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME		STARTS/HOUR	MOTOR WGT	
0	dba	9	dba	0.06	LB-FT²	0.1	LB-FT²	10	SEC.	0	0	LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	NO	NONE	NO	NONE	IN - LEESON WATTS
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
DE	CODE							
BALL	BALL	POLYREX EM	JET PUMP	NONE	NONE	303 STAINLESS (C-501)	ROLLED STEEL	
6205	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		
0	0	0	0	0	0.150	ODE		

INVERTER TORQUE: CONSTANT 10:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE
NONE PPR

DATE: 1/31/2018

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

HZ:



Data@ 460 V

Motor Load Data									
	0%	25%	50%	75%	100%	115%	125%	LR	
Load									
Current (amps)	1.00	1.14	1.39	1.69	2.00	2.30	2.40	20.1	
Torque (ft-lb)	0.00	0.56	1.12	1.68	2.25	2.65	2.80	8.9	
RPM	3600	3570	3549	3535	3500	3488	3480	0	
Efficiency (%)		67.6	78.9	81.9	84.0	84.2	84.4		
P.F. (%)	12.6	46.2	64.7	76.5	83.6	85.1	85.8	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	220	2200	3600	3600		
Current (amps)	20.1	18.5	16.0	2.00	1.00	HP	1.5
Torque (ft-lb)	8.9	8.6	10.7	2.25	0.00	Sync. RPM	3600

Information Block

Frame	140			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	M			
Service Factor	1.15			
Temp Rise @ FL	50 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.06 LB-Ft ²			
Ret Wdg	T6321/3 FFR			
Sound Pressure @ 1M	0 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	028824-650			
Conn. Diag	005010.01			
Additional Specifications:				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Efficiency (%)

P.F. (%)

Current (amps)

The graph displays three performance metrics against load percentage from 0% to 140%. The left y-axis represents Efficiency (%) and P.F. (%) from 30.0 to 100.0. The right y-axis represents Current (amps) from 0.0 to 3.0. Efficiency (blue line) starts at ~75% at 20% load and rises to ~95% at 120% load. P.F. (red line) starts at ~75% at 20% load and rises to ~95% at 120% load. Current (black line) starts at ~2.5A at 0% load and decreases to ~2.2A at 120% load.

LOAD	Efficiency (%)	P.F. (%)	Current (amps)
20%	75	75	2.5
40%	80	80	2.4
60%	85	85	2.3
80%	90	90	2.2
100%	93	93	2.2
120%	95	95	2.2

A

M

P

S

Speed -Torque Curve

