

PRODUCT INFORMATION PACKET



Model No: C6T17DC81B

Catalog No: E116741.00

E116741.00..1.5HP..1750RPM.56C.DP.230/460V.3PH.60HZ.CONT.40C.1.15SF.C
FACE.C6T17DC81.....GENERAL PURPOSE.T-STAT.....

Open Drip Proof (ODP)



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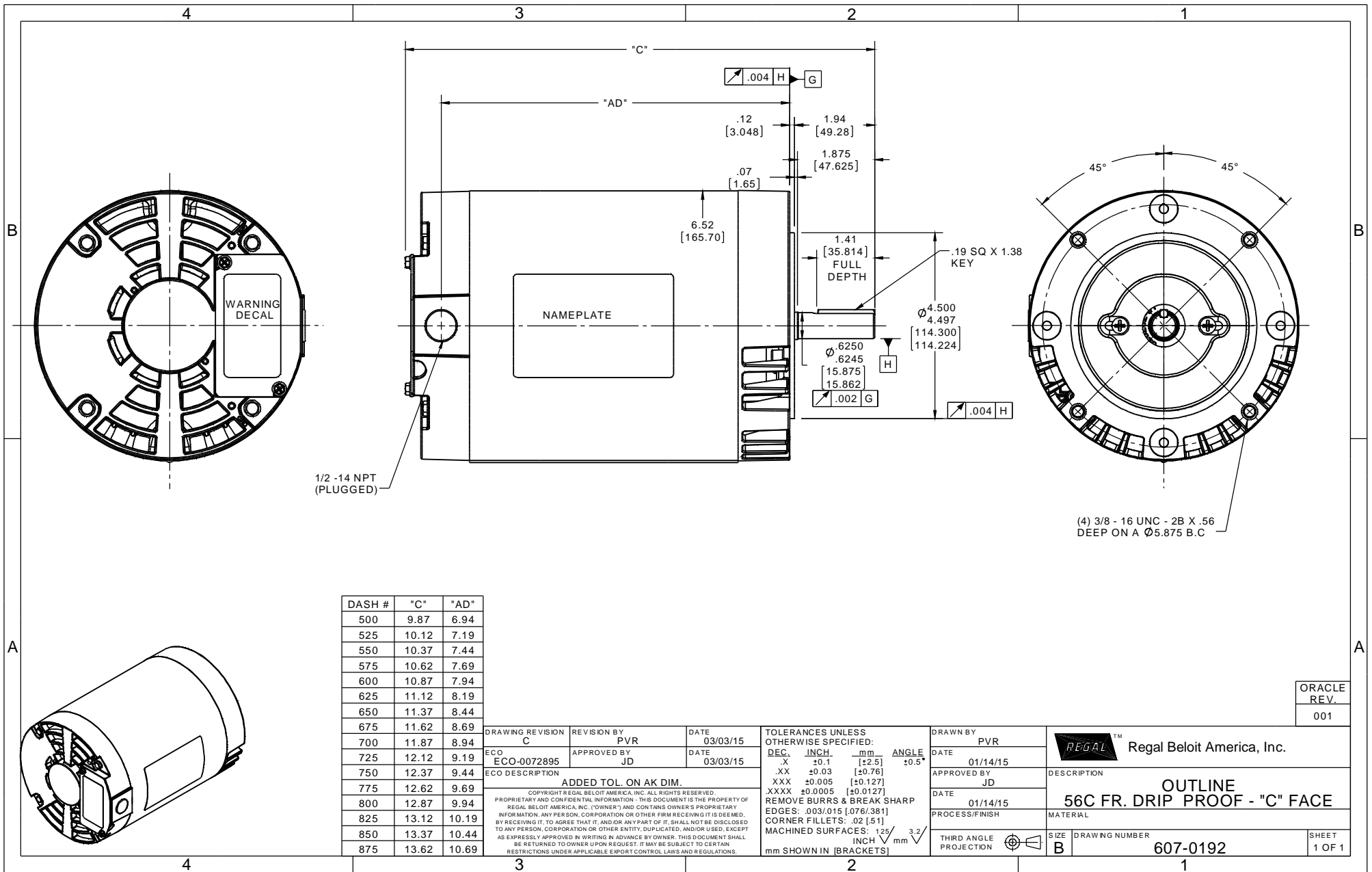
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	230/460 V
Current	4.8/2.4 A	Speed	1750 rpm
Service Factor	1.25	Phase	3
Efficiency	86.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	L	Frame	56C
Enclosure	Drip Proof	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6203
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	Y
IP Code	22		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Mounting	Round	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Rolled Steel	Shaft Type	T
Overall Length	12.87 in	Frame Length	8.00 in
Shaft Diameter	0.625 in	Shaft Extension	1.88 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	607-0192-800	Connection Diagram	005010.20

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1/2 - 14 NPT (PLUGGED)

(4) 3/8 - 16 UNC - 2B X .56 DEEP ON A Ø5.875 B.C

DASH #	"C"	"AD"
500	9.87	6.94
525	10.12	7.19
550	10.37	7.44
575	10.62	7.69
600	10.87	7.94
625	11.12	8.19
650	11.37	8.44
675	11.62	8.69
700	11.87	8.94
725	12.12	9.19
750	12.37	9.44
775	12.62	9.69
800	12.87	9.94
825	13.12	10.19
850	13.37	10.44
875	13.62	10.69

DRAWING REVISION C	REVISION BY PVR	DATE 03/03/15
ECO ECO-0072895	APPROVED BY JD	DATE 03/03/15
ECO DESCRIPTION ADDED TOL. ON AK DIM.		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH.	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381]			
CORNER FILLETS: .02 [5.1]			
MACHINED SURFACES: 125 INCH/mm 3.2			
mm SHOWN IN [BRACKETS]			

DRAWN BY PVR	DATE 01/14/15
APPROVED BY JD	DATE 01/14/15
PROCESS/FINISH	MATERIAL
THIRD ANGLE PROJECTION	SIZE B

Regal Beloit America, Inc.	
DESCRIPTION 56C FR. DRIP PROOF - "C" FACE	
DRAWING NUMBER 607-0192	SHEET 1 OF 1

ORACLE REV. 001

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END. Uncontrolled Copy



LINE LEADS



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

DRAWING REVISION **G** REVISION BY **MVG** DATE **04/05/2017**

ECO **ECO-0121253** APPROVED BY **SM** DATE **04/05/2017**

ECO DESCRIPTION
ADDED P1 & P2 FOR TSTAT

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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.01	[±0.25]	
.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: 125/3.2
 INCH/mm
 mm SHOWN IN [BRACKETS]

DRAWN BY **DBT 12/16/97**

DATE

APPROVED BY **KH 12/17/97**

DATE

REFERENCE

THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3 PHASE WITH PROTECTOR

MATERIAL **DECAL - 004014 (TSTAT) - 080582** PROCESS/FINISH **STOCK**

SIZE **A** DRAWING NUMBER **00501020** SHEET **1 OF 1**



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005010.20
OUTLINE: 607-0192-800
WINDING: T634341

DR 3

CAT #: E116741.00

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
1.5	1.1	1800	1746	56C	DP	TDR	L	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	4.3/2.15&4.9/2.45	LINE OR INVERTER	CONT	F	1.15	40	3300
F.L. EFF	86.5	3/4 LD EFF	87.0	1/2 LD EFF	84.2	GTD EFF		ELECT. TYPE	
F.L. PF	70.0	3/4 LD PF	67.2	1/2 LD PF	55.1	0.0		SO CAGE INVERTED	
F.L. TORQUE	LR AMPS @ 460 V	18.1	14.8	LB-FT	329%	19.8	LB-FT	B.D. TORQUE	F.L. RISE (°C)
4.5	LB-FT							440%	28
PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT			
0	DBA	9	DBA	0.14	LB-FT²	0.1	LB-FT²	10	SEC.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	NO	NONE	NO	NONE	N - LEESON WATTS
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
DE	ODE							
BALL	BALL	POLYREX EM	T	NONE		1144 STRESSPROOF (C-223)	ROLLED STEEL	
6203	6203							
THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS		
TSTATS (N/C)	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	0.080	ODE		

INVERTER TORQUE: CONSTANT 10:1
INV. HP SPEED RANGE: 1.1 X BASE SPEED

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

DATE: 1/30/2018

HAZ: NONE
PPR: NONE



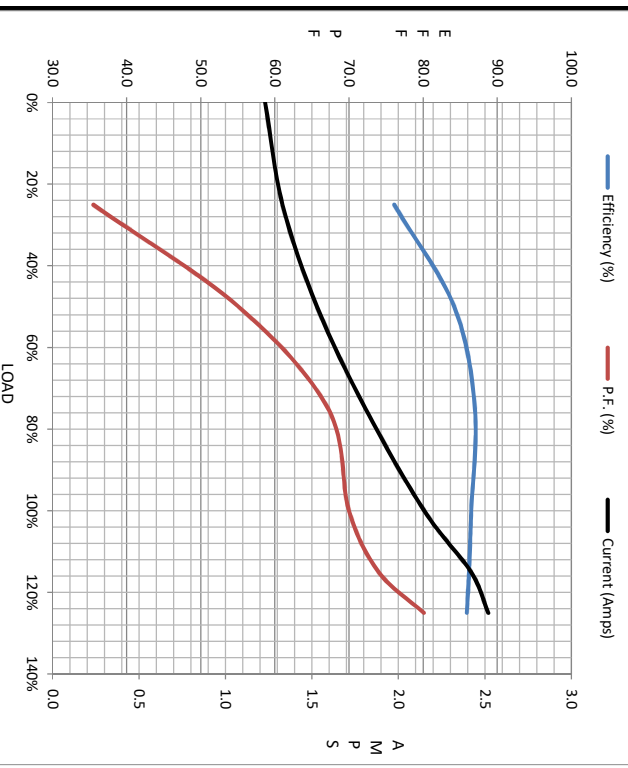
Load	Motor Load Data							LR
	0%	25%	50%	75%	100%	115%	125%	
Current (Amps)	1.23	1.33	1.53	1.81	2.15	2.42	2.52	18.1
Torque (ft-lb)	0.00	1.13	2.25	3.4	4.5	5.2	5.6	14.8
RPM	1800	1786	1773	1761	1746	1740	1732	0
Efficiency (%)		76.1	84.2	87.0	88.5	86.2	85.9	
P.F. (%)	9.9	35.5	55.1	67.2	70.0	74.0	80.1	0.0

Motor Speed Data

Motor Speed Data		LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1746	1800	
Current (Amps)	18.1	16.0	12.1	2.15	1.23	
Torque (ft-lb)	14.8	13.5	19.8	4.5	0.00	

Information Block

HP	1.5			
Sync. RPM	1800			
Frame	140			
Enclosure	DP			
Construction	TDR			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	28 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.14 LB-Ft ²			
Ref Wdg	T634341 DR			
Sound Pressure @ 1M	0 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	607-0192-800			
Conn. Diag	005010.20			
Additional Specifications:				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed -Torque Curve

