

PRODUCT INFORMATION PACKET

Model No: 056T17W99024
Catalog No: K610A
1.5,1800,TEFC,56C,3/60/230/460
Severe Duty



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REGAL



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	1.15	Phase	3
Efficiency	86.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	L	Frame	56C
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	55		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Mounting	Round	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Rolled Steel	Shaft Type	NEMA 56
Overall Length	13.37 in	Frame Length	7.50 in
Shaft Diameter	0.625 in	Shaft Extension	2.06 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	607-0006ME-750	Connection Diagram	005010.20

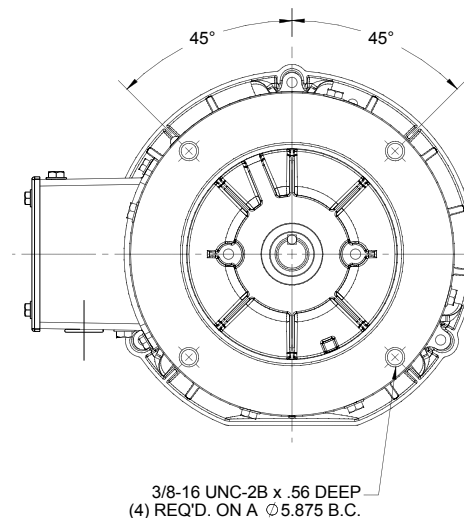
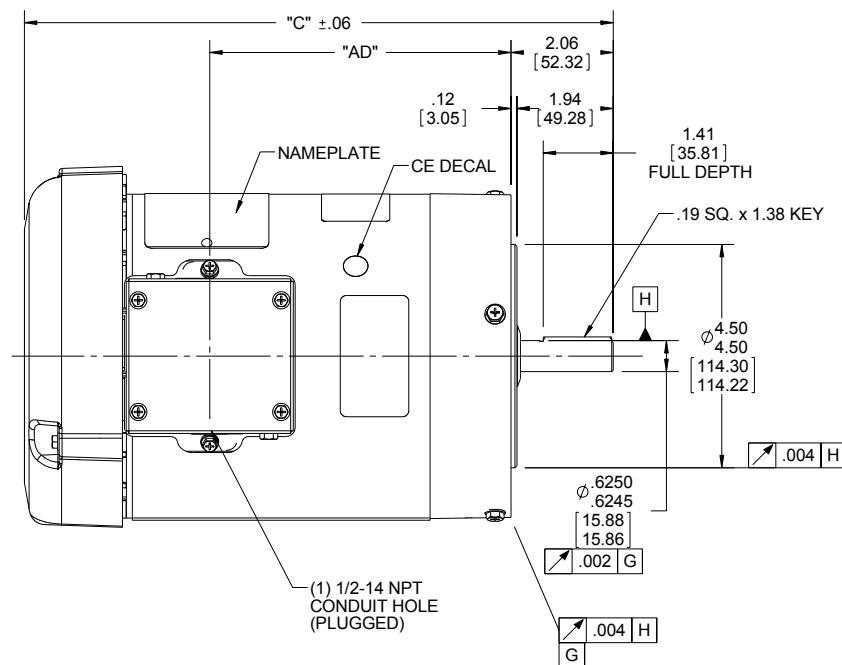
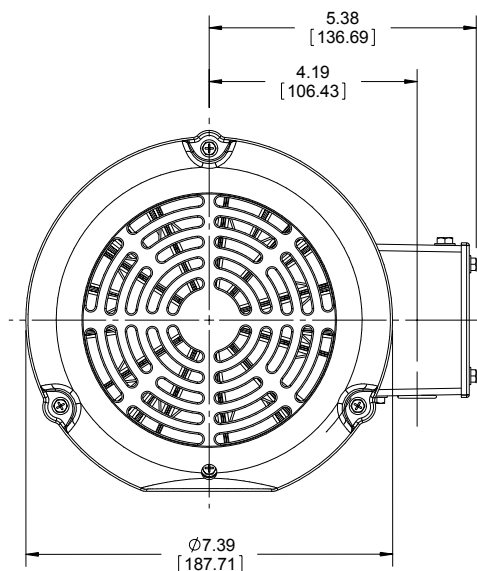
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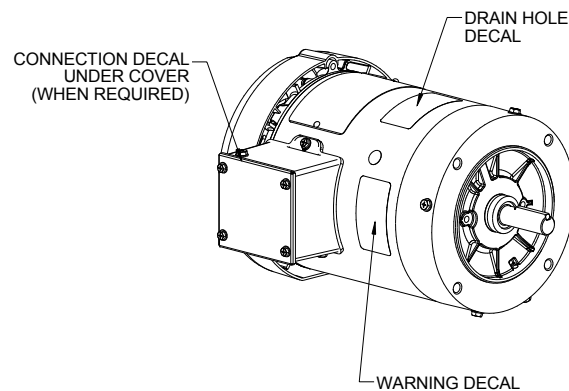
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B



B

A



DASH NO.	"C"	"AD"
450	10.37	4.56
500	10.87	5.06
550	11.37	5.56
600	11.87	6.06
650	12.37	6.56
675	12.62	6.81
700	12.87	7.06
750	13.37	7.56
800	13.87	8.06

WASHGUARD MOTOR

SPECIAL FEATURES:

1. SHAFT SEALS & V-RING.
2. PLUGGED DRAIN HOLES IN ENDBELLS & CONDUIT BOX.
3. BUNA-N GASKETS THROUGHOUT.
4. STAINLESS STEEL SHAFT, HARDWARE & NAMEPLATE.

A

DRAWING REVISION C	REVISION BY LK	DATE 11/30/2015
ECO ECO-0089675	APPROVED BY GRB	DATE 11/30/2015
ECO DESCRIPTION ADDED DASH #800 PER NMR-0093544		
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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 [0.076/.381] X 45°			
CORNER FILLETS: R.02 [51]			
MACHINED SURFACES: 125/3.2			
mm SHOWN IN [BRACKETS]			

DRAWN BY PVR 12/24/12	DATE
APPROVED BY	DATE
REFERENCE	THIRD ANGLE PROJECTION

Regal Beloit America, Inc.	
DESCRIPTION	OUTLINE TEFC - "C" FACE
MATERIAL	WASHGUARD
PROCESS/FINISH	
SIZE	B
DRAWING NUMBER	607-0006ME
SHEET	1 OF 1

4

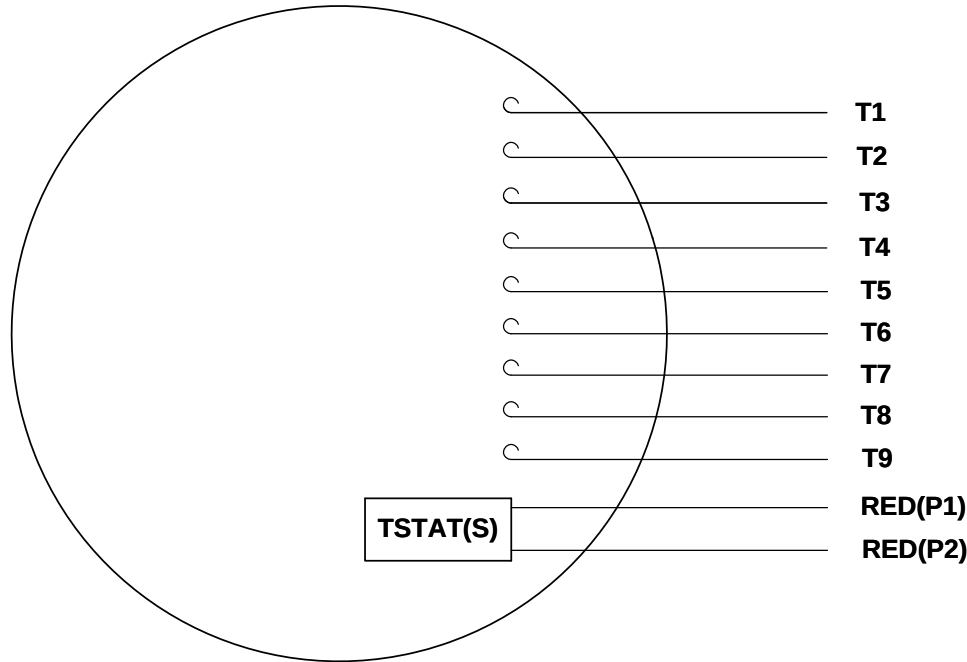
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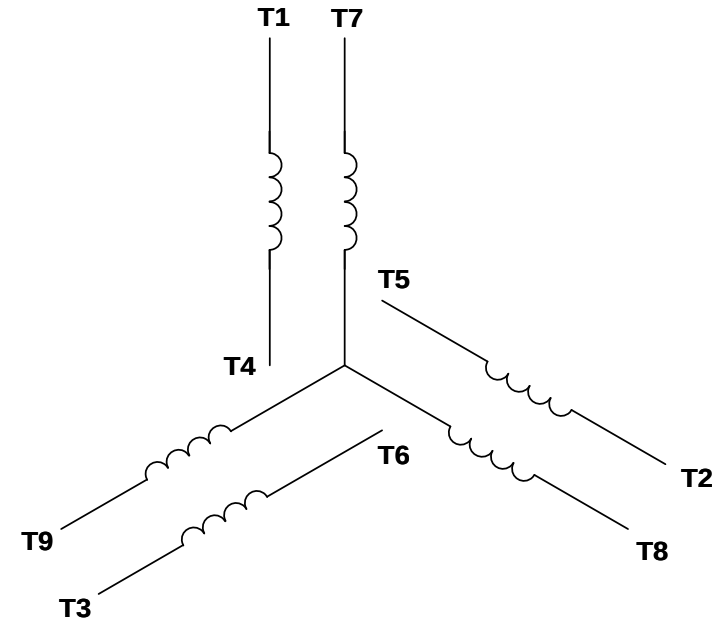
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VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.

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

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 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

CUSTOMER: _____

ORDER #: 005010.20

CONN. DIAGRAM: 607-0006ME-750

OUTLINE: T634341

WINDING: FR 3

SPEED: _____

CUSTOMER P.O. #: _____

REFERENCE MODEL #: 56T17W99024

CAT #: K610A

CUSTOMER PART #: _____

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN					
1.5	1.1	1800	1750	56C	TEFC	TFR	L	B					
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.				
3	60	230/460	4.3/2.15	ACROSS THE LINE	CONT	F	1.15	40	3300				
F.L. EFF		86.5	3/4 LD EFF		87.2	1/2 LD EFF		84.0	GTD EFF	ELECT. TYPE			
F.L. PF		67.7	3/4 LD PF		63.0	1/2 LD PF		55.0	0.0	SQ CAGE IND RUN			
F.L. TORQUE		LR AMPS @ 460 V			L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)				
4.5 LB-FT		18.5			17.2 LB-FT		20.4 LB-FT		453%		45		
@ 3 FT.		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME		STARTS/HOUR		MOTOR WGT	
65 dBA		74 dBA		0.14 LB-FT²		0.1 LB-FT²		10 SEC.		3		0 LB.	

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAIN
C-FACE	STANDARD	ROUND	HORIZONTAL	NO	NONE	NO	NONE	GRAY - EPOXY
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
DE ODE	BALL	POLYREX EM	STANDARD 56	NONE	NONE	303 STAINLESS (C-501)	ROLLED STEEL	
6205	6203							
THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE	HEATERS	
TSTATS (INC)	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	ODE	
0	0	0	0	0	0.080			
* N O T E S								
				INVERTER TORQUE: NONE				
				INV. HP SPEED RANGE: NONE				
				ENCODER: NONE				
				BRAKE: NONE				
				FT-LB: NONE				
				VOLTAGE: NONE				
				UL: V/INS, CONST UL REC				
				HZ:				

PREPARED BY: FAREEDA DUDEKULA

DATE: 9/12/2018

FORM: 3531 REV 4 2/27/06

UL: V/INS, CONST UL REC

HZ:

Data Sheet

Date: 9/12/2018

Customer:

Attention:

Submitted by:

FAREEDA DUDEKULA

56117W99024



Submittal

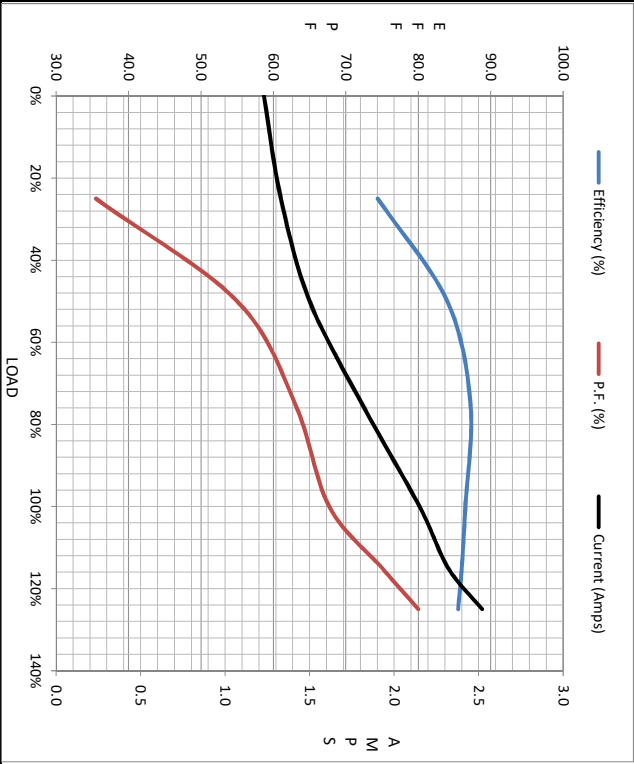
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.23	1.33	1.50	1.81	2.15	2.32	2.52	18.5
Torque (ft-lb)	0.00	1.10	2.25	3.4	4.5	5.2	5.6	17.2
RPM	1800	1785	1772	1760	1750	1,738	1732	0
Efficiency (%)		74.4	84.0	87.2	86.5	86.0	85.5	
P.F. (%)	9.9	35.5	55.0	63.0	67.7	75.0	80.0	48.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	900	1600	1750	1800		
Current (Amps)	18.5	16.1	12.1	2.15	1.23	HP	1.5
Torque (ft-lb)	17.2	16.0	20.4	4.5	0.00	Sync. RPM	1800



Frame	140182TFC6080			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460		V	
Frequency	60		Hz	
Design	B			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	45 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.14 Lb-Ft²			
RetWdg	T634341 FR			
Sound Pressure @ 1M	65		dBA	
VFD Rating	NONE			
Outline Dwg	607-0006ME-750			
Conn. Diag	005010.20			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed - Torque Curve

