

PRODUCT INFORMATION PACKET

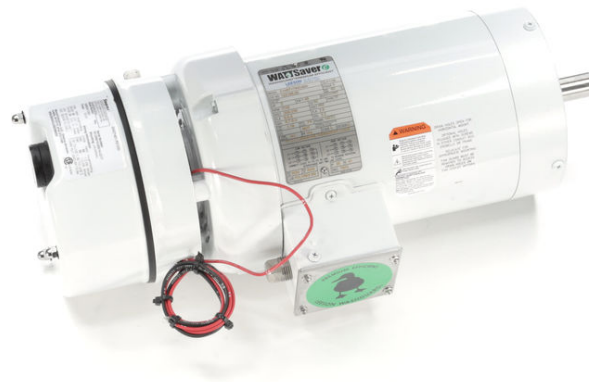


Model No: C145T17WC45A

Catalog No: 122196.00

2HP..1745RPM.145TC.TEFC.230/460V.3PH.60HZ.CONT.40C.1.15SF.RIGID C
FACE.C145T17WC45.....WASHDOWN BRAKEMOTOR.T-STATS.....

Brake Motors



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Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW
Frequency	60 Hz	Voltage	208-230/460 V
Current	6.0-5.8/2.9 A	Speed	1745 rpm
Service Factor	1.15	Phase	3
Efficiency	86.5 %	Duty	Continuous
Insulation Class	F	Design Code	C
KVA Code	L	Frame	145TC
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	T
Overall Length	19.00 in	Frame Length	8.00 in
Shaft Diameter	0.875 in	Shaft Extension	2 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	607-0218-800	Connection Diagram	005010.28

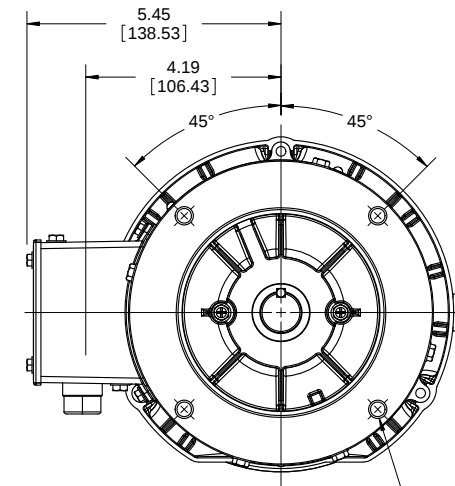
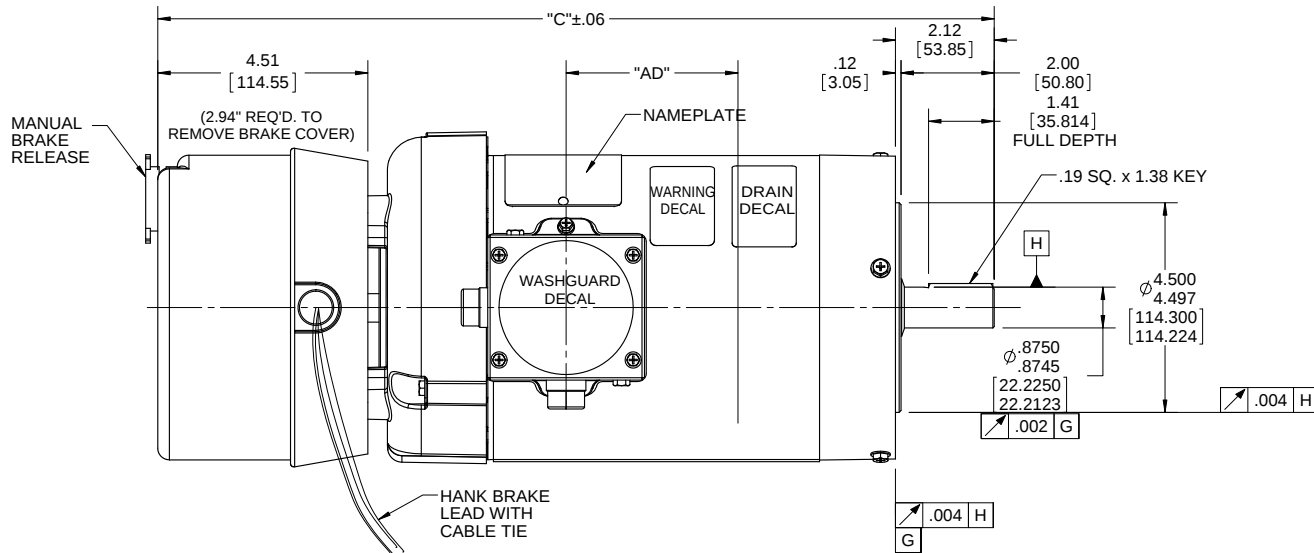
4

3

Uncontrolled Copy

2

1



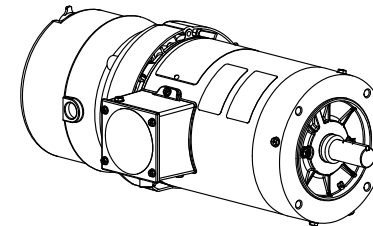
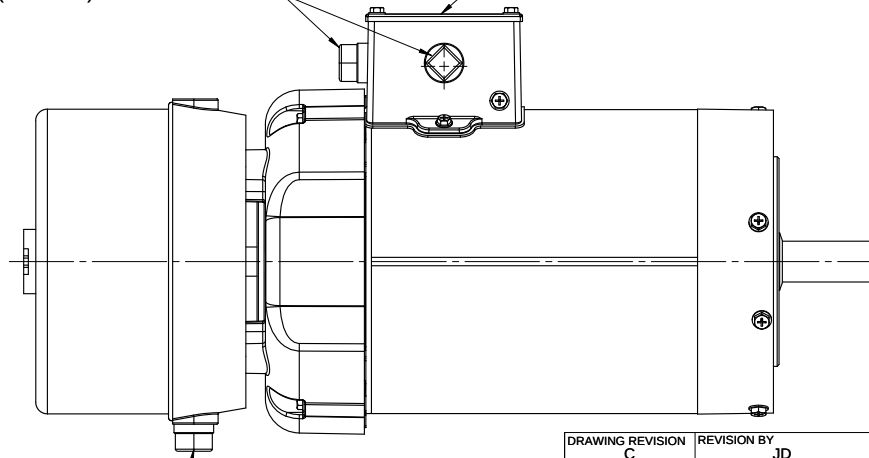
WASHGUARD MOTOR

SPECIAL FEATURES:

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

(2) 1/2-14 NPT CONDUIT HOLE
(PLUGGED)

DECAL CONN.
UNDER COVER
(WHEN REQ'D.)



800	19.00	8.06
750	18.50	7.56
700	18.00	7.06
DASH NO	"C"	"AD"

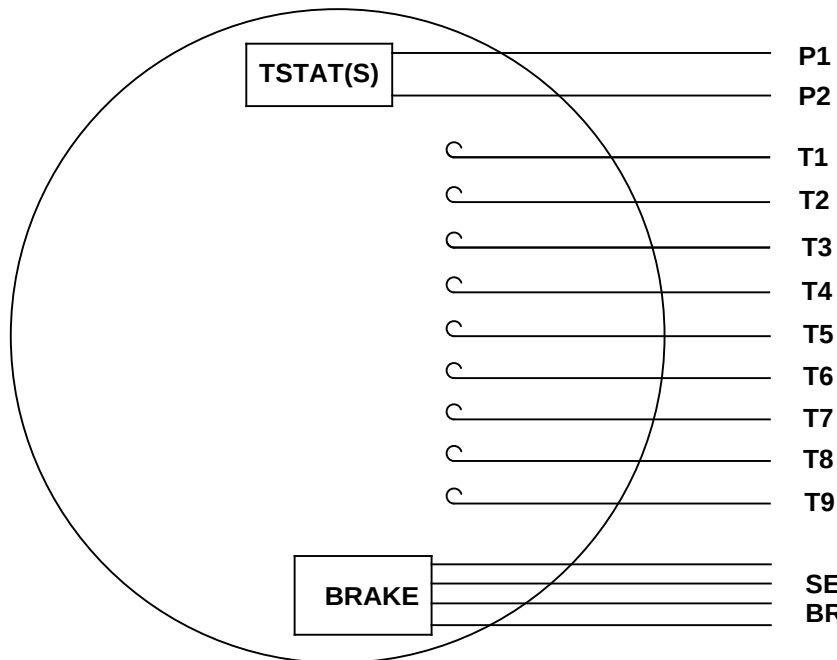
DRAWING REVISION C	REVISION BY JD	DATE 12/09/2016
ECO ECO-0114619	APPROVED BY JD	DATE 12/09/2016
ECO DESCRIPTION BRAKE LEAD OUT SHOWN ECR-0123566		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.01	[±0.25]	
.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 CHRIS FISHER	DATE 10/8/2015
APPROVED BY	DATE
REFERENCE 029007	THIRD ANGLE PROJECTION

Regal Beloit America, Inc.	
DESCRIPTION OUTLINE TEFC - "C" FACE	
MATERIAL WASHGUARD BRAKE MOTOR	PROCESS/FINISH
SIZE B	DRAWING NUMBER 607-0218
SHEET 1 OF 1	

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.

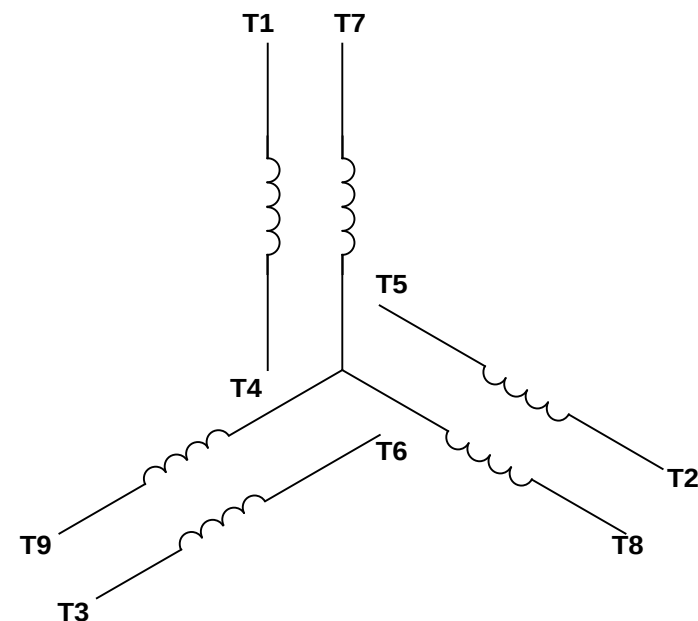


**SEE TABLE FOR
BRAKE CONNECTIONS**

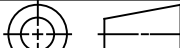
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BRAKE CONNECTION						
VOLTAGE	STERNS BRAKE			DINGS BRAKE		
	L1	L2	Join	L1	L2	Join
HIGH	1(RED)	2(RED)	3(BLACK) 4(BLACK)	2(BLACK)	4(YELLOW)	1(YELLOW) 3(BLACK)
LOW	1(RED) 3(BLACK)	2(RED) 4(BLACK)	-----	2(BLACK) 3(BLACK)	1(YELLOW) 4(YELLOW)	-----



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			ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN RDW 09/14/99		
				DEC	INCHES				CHK		
				.X	±.1				APPR		
				.XX	±.01		TITLE EXTERNAL WIRING DIAGRAM		SCALE 1:1		
				.XXX	±.005	3 PHASE W/O PROTECTOR		REF 005010-15			
--	REDRAWN IN SOLIDWORKS		VJB 02/08/11		.XXX	±.0005	MAT'L DECAL - 004014 DECAL - 080088		FMF		
NO	REVISION		BY & DATE	CHK	ANG	±1/2°	FINISH CAMFAB INC.		PAGE	OF	
THIRD ANGLE PROJECTION 				RFP		PREV		SIZE A	DRAWING NO		REV --
				NETWORK FILE NAME 00501028					005010-28		

Data Sheet

Date: 1/31/2018

122196.00



Data @ 460 V

Motor Load Data

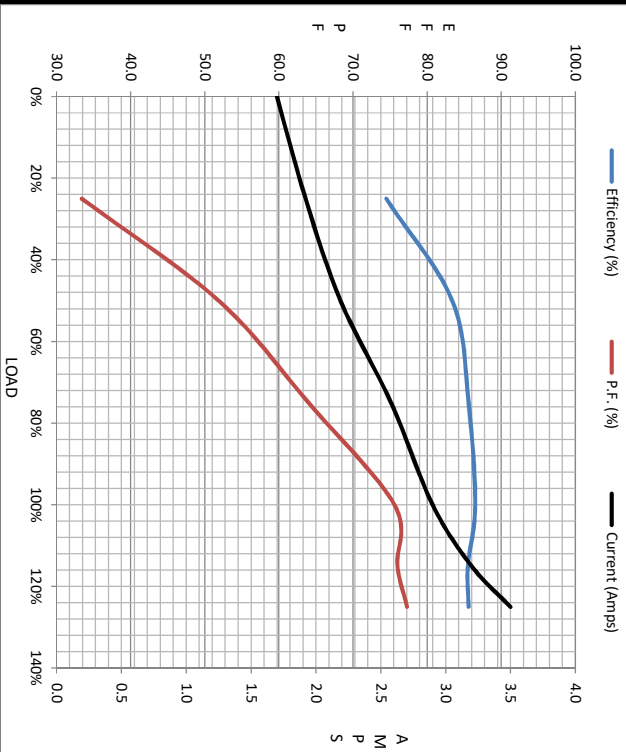
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.70	1.92	2.19	2.58	2.90	3.2	3.5	26.5	
Torque (ft-lb)	0.00	1.50	3.0	4.5	6.0	6.5	7.5	18.8	
RPM	1800	1787	1774	1763	1751	1,730	1732	0	
Efficiency (%)		74.5	83.4	85.6	86.5	85.5	85.6		
P.F. (%)	7.1	33.4	51.9	64.0	75.6	76.0	77.3	42.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	775	1085	1751	1800
Current (Amps)	26.5	24.4	14.2	2.90	1.70
Torque (ft-lb)	18.8	15.0	24.6	6.0	0.00

Information Block

HP	2.0			
Sync. RPM	1800			
Frame	140			
Enclosure	TEFC			
Construction	TFR			
Voltage	208-230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	53 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.16 Lb-Ft²			
Ref Wdg	T634340 FR			
Sound Pressure @ 1M	65 dBA			
VFD Rating	NONE			
Outline Dwg	607-0218-800			
Conn. Diag	005010.28			
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

