PRODUCT INFORMATION PACKET

Model No: 116463.00
Catalog No: 116463.00
White Duck™ Brake Motor, 0.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 56C Frame, TENV

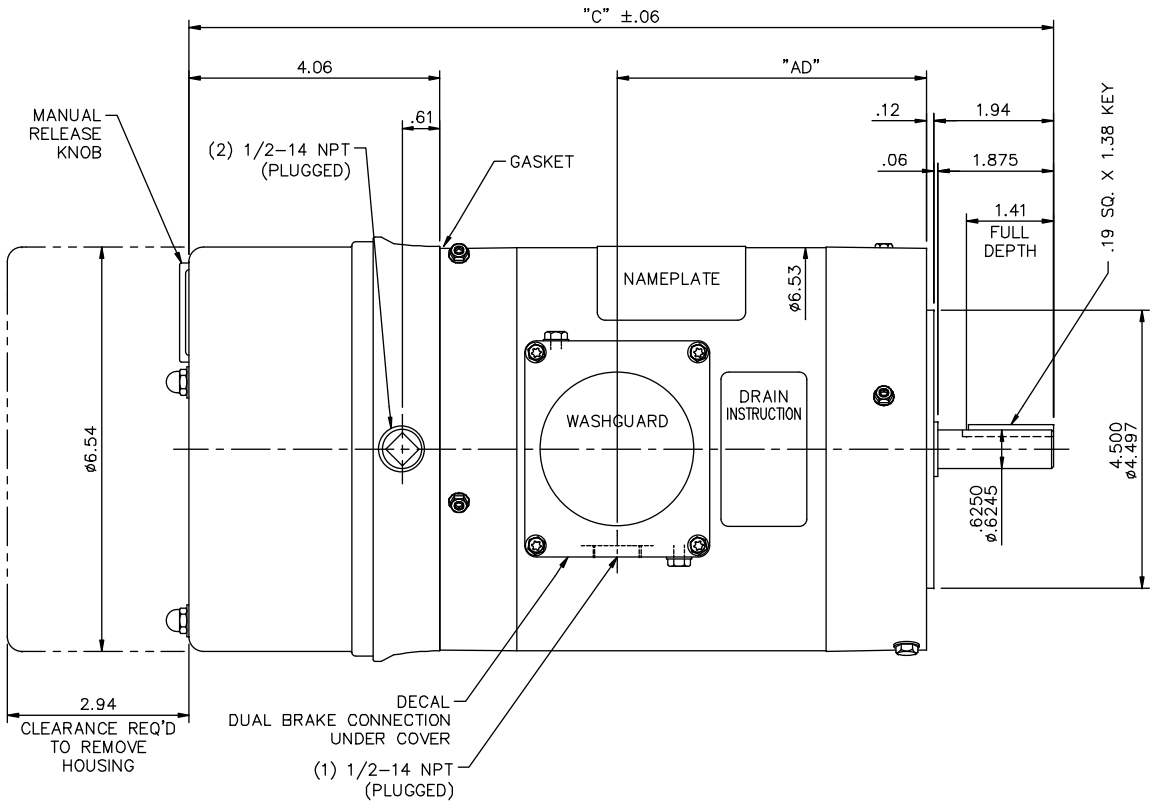
Operational at 208-230/460 V @60HZ

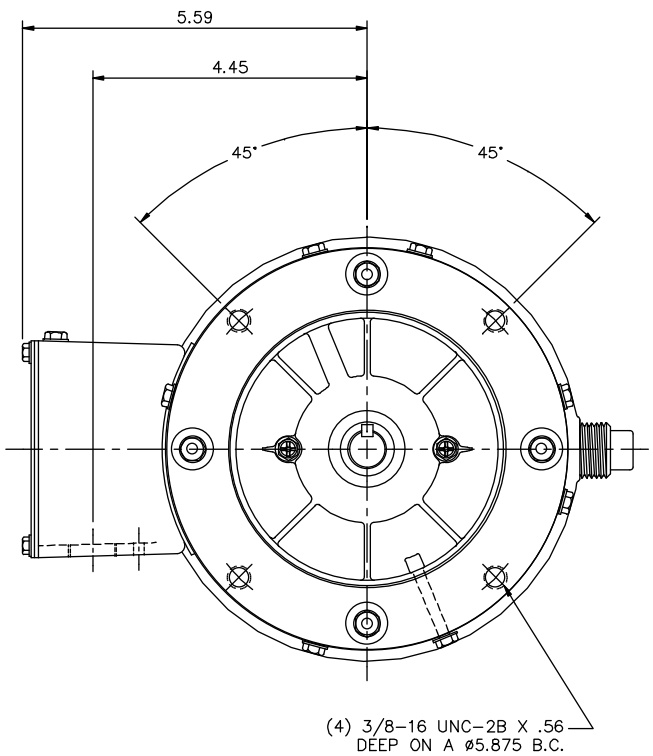
Nameplate Specifications

Phase	3	Output HP	0.50 Hp
Output KW	0.37 kW	Voltage	230/460 V
Speed	1725 rpm	Service Factor	1.15
Frame	56C	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No Protection	Efficiency	78.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	1.8/0.90 A	Power Factor	67
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	L
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	9.66 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	14.50 in
Frame Length	5.50 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005010.15	Outline Drawing	028577-550





DASH NO.	"C"	"AD"
500	14.00	5.01
550	14.50	5.51
600	15.00	6.01
650	15.50	6.51

MAXIMUM FACE RUNOUT TO BE .004 TIR
MAXIMUM PILOT ECCENTRICITY .004 TIR
PERMISSIBLE SHAFT RUNOUT .002 TIR

WASHGUARD FEATURES:

1) SHAFT SEAL & V–RING
2) DRAIN HOLES IN ENDBELLS & CONDUIT BOX
3) STAINLESS STEEL SHAFT, HARDWARE & NAMEPLATE
4) GASKETS THROUGHOUT

NO.	REVISION	BY & DATE	CHK
03	ADDED DRAIN SCREWS TO ALL HOLES ECR–0034519	ARV 7/30/13	SK
02	NOTE WAS (1) 1/2–14 NPT (PLUGGED) FOR BRAKE	ARV 5/30/09	
01	REV'D DRAIN HOLE SCREW LOC'NS IN L.E ENDBELL TO	BJB 03/18/04	
	MATCH ENDBELL MACHINING		

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE: OUTLINE– 56C FRAME TENV– "C" FACE

MAT'L. WASHGUARD BRAKEMOTOR

FINISH

CAD FILE 028577

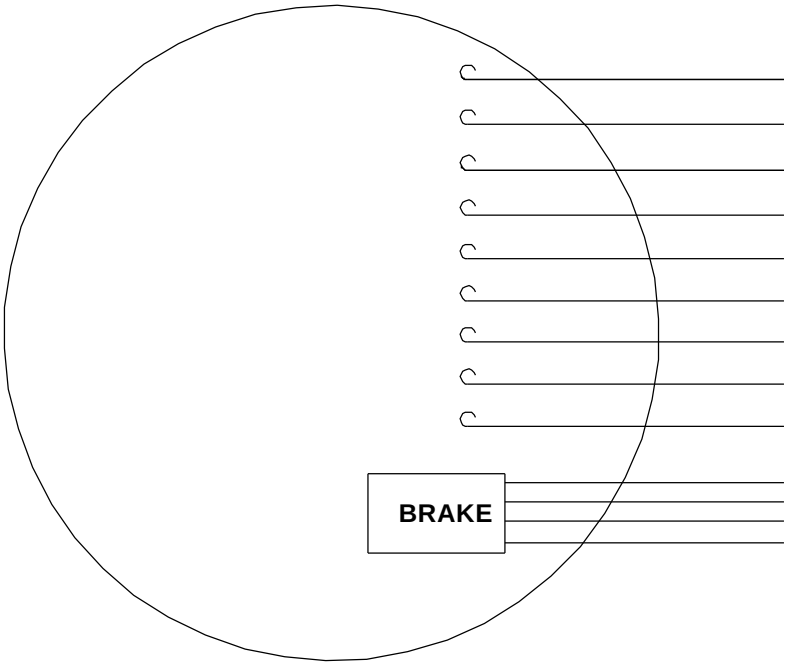
RFP

DIST

DRAWN	LST 1/19/04
CHK	RW 1/19/04
APPD	KH 1/19/04
SCALE	1=2
REF	028575
FMF	
PREV	

SIZE B | DRAWING NO. 028577 | REV. 03

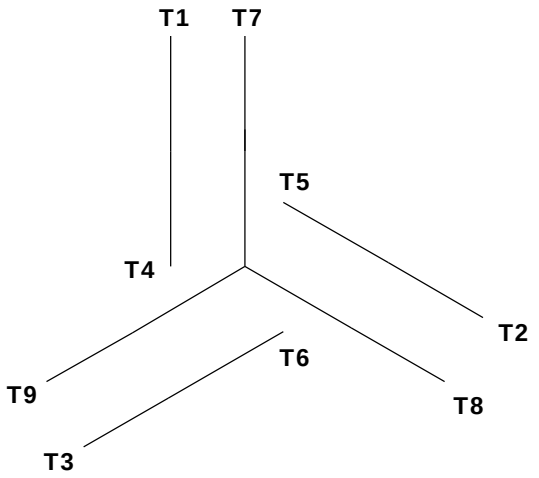
VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



CAUTION:
LEAD WIRE INSULATION TO EXTEND MINIMUM OF 1/4" INTO CONNECTOR INSULATION

SEE TABLE FOR BRAKE CONNECTIONS

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

REF. DECAL (MOTOR) - 004014
REF. DECAL (BRAKE) - 080034 (STEARNS & DINGS BRAKE)

TYPE "T" W/O PROTECTOR

VOLTAGE	BRAKE CONNECTION					
	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)	----------

NO	REVISION	BY & DATE	CHK
--	REDRAWN IN SOLIDWORKS	VJB 02/08/11	
01	ADDED DINGS AND BRAKE TABLE (PER CN114156)	TMZ 11/12/96	

TOLERANCES UNLESS SPECIFIED
DEC INCHES
.X ±.1
.XX ±.01
.XXX ±.005
.XXXX ±.0005
ANG ±1/2°

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE EXTERNAL WIRING DIAGRAM
STANDARD 3 PHASE - DUAL VOLTAGE
MAT'L W/STEARNS OR DINGS DUAL VOLTAGE BRAKE CONN.
FINISH LEESON STOCK

DRAWN JJK 09/17/96
CHK
APPR
SCALE 1:1
REF 005010-01
FMF
PAGE OF

THIRD ANGLE PROJECTION

RFP
PREV
NETWORK FILE NAME 00501015

SIZE A
DRAWING NO 005010-15
REV --

1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810

CERTIFICATION DATA SHEET

CATALOG #: 116463.00

CONN. DIAGRAM: 005010.15

OUTLINE: 028577-550

MOUNTING: F1 ONLY

WINDING #: T634208 NR 3 A

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2	0.37	1800	1725	56C	TENV	L	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	208-230/460	2.0-1.8/.9	ACROSS THE LINE	CONTINUOUS	F4	1.15	40

FULL LOAD EFF:	78.5	3/4 LOAD EFF:	75.8	1/2 LOAD EFF:	70.9	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	67	3/4 LOAD PF:	55.9	1/2 LOAD PF:	44.1	0	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
24 OZ-FT	12.2 / 6.1	72.1 OZ-FT 300 %	97.8 OZ-FT 408 %	70

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.06 LB-FT^2	0.1 LB-FT^2	0 SEC.	0	0 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE	ROUND	HORIZONTAL	FALSE	NONE	FALSE	NONE	WHITE - LEESON (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	STANDARD 56	NONE	NONE	303 STAINLESS (C-501)	ROLLED STEEL
6205	6203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

NOTES

*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: REGAL SUPPLIED AND MOUNT NONE

STEARNS P/N 004225.81
56,000 NEMA 4X
3 FT-LB 230/460-190/380 V 60/50 Hz

Data Sheet

Date: 1/24/2018

LEESON

116463.00

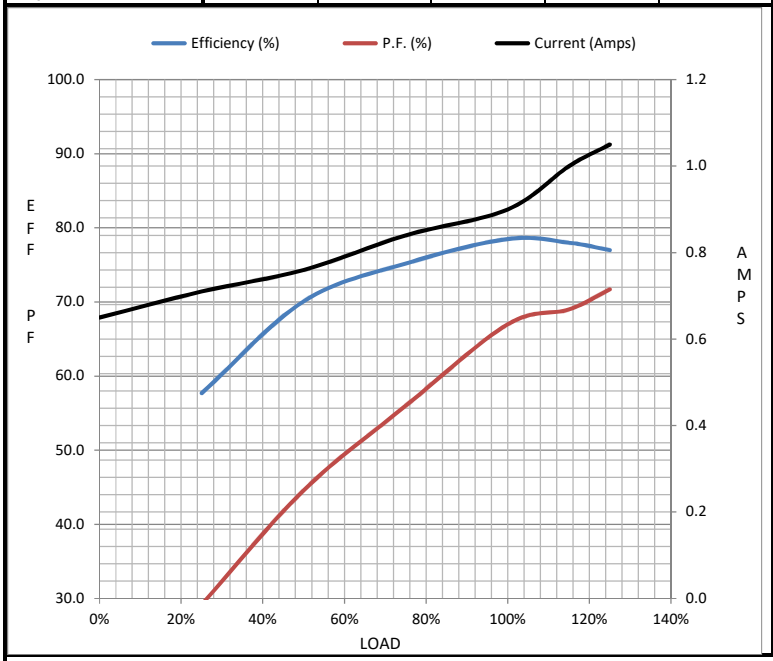
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	0.65	0.71	0.76	0.84	0.90	1.00	1.05	12.2	
Torque (ft-lb)	0.00	96.0	192	288	384	448	480	1,153	
RPM	1800	1788	1776	1764	1750	1,740	1735	0	
Efficiency (%)		57.7	70.1	75.2	78.5	78.0	77.0		
P.F. (%)	13.1	29.2	44.6	56.0	67.0	69.0	71.7	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	300	1310	1750	1800
Current (Amps)	12.2	5.7	4.5	0.90	0.65
Torque (ft-lb)	1,153	1,142	1,564	384	0.00



Information Block

HP	0.5	
Sync. RPM	1800	
Frame	140	
Enclosure	TENV	
Construction	TTR	
Voltage	208-230/460	V
Frequency	60	Hz
Design	A	
LR Code letter	L	
Service Factor	1.15	
Temp Rise @ FL	70	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.06	Lb-Ft²
Ref Wdg	T634208 NR	
Sound Pressure @ 1M	0	dBA
VFD Rating	NONE	
Outline Dwg	028577-550	
Conn. Diag	005010.15	

Additional Specifications:

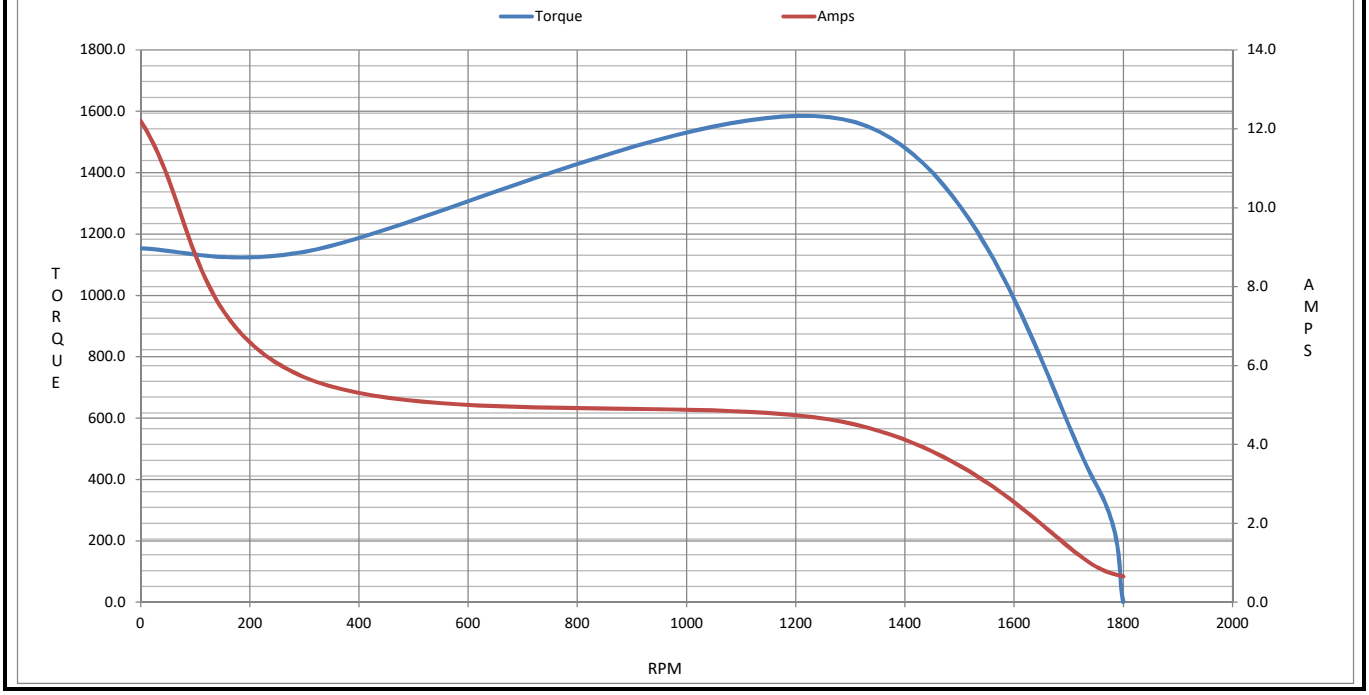
0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed -Torque Curve



EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
1946 West Cook Road
Fort Wayne, IN 46818

and the authorized representative
established within the Community:

Regal Beloit Italy
Via Modena, 18
24040 Ciserano(BG) - Italy

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 116463.00

(Model No. may contain prefix and/or suffix characters)

Catalog No : 116463.00

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)
EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Zach Stauffer
Vice President, Engineering

Authorized Representative in the Community:

Stefano Casiraghi
Technology Director, Engineering

Created on 07/08/2025

CE 25