

PRODUCT INFORMATION PACKET



Model No: 117121.00

Catalog No: 117121.00

Extreme Duck® Ultra General Purpose Motor, 0.75 & 0.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1800 & 1500 RPM, 56C Frame, TENV

Operational at 208-230/460 V @60HZ



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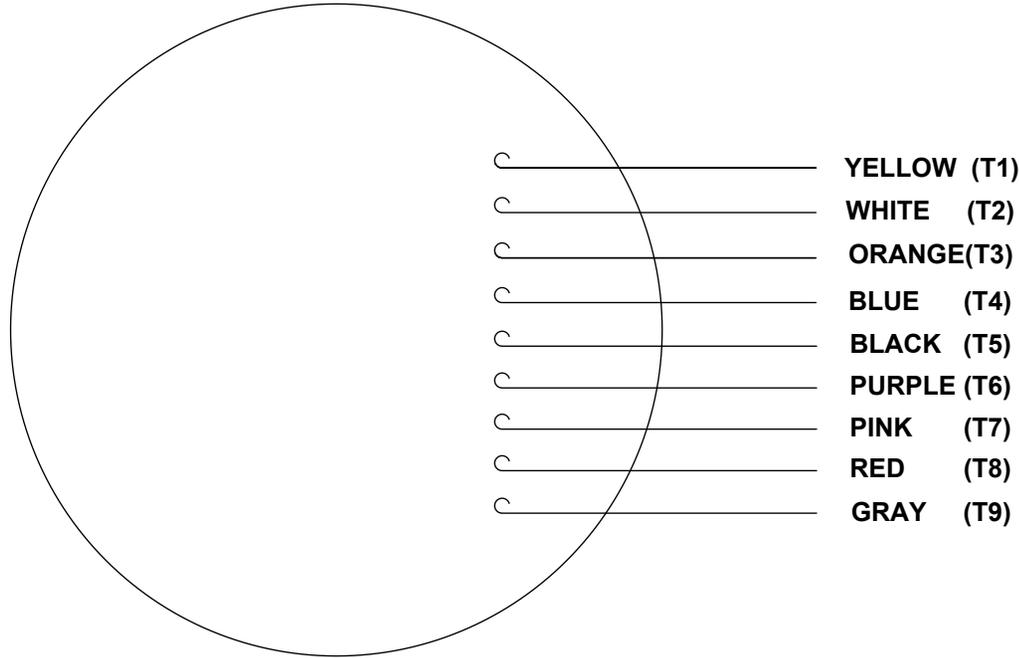
Nameplate Specifications

Phase	3	Output HP	0.75 & 0.50 Hp
Output KW	0.56 & 0.37 kW	Voltage	230/460 & 190/380 V
Speed	1725 & 1425 rpm	Service Factor	1.15 & 1.15
Frame	56C	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No Protection	Efficiency	80 & 81.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	2.3/1.15 & 1.8/9 A	Power Factor	76
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	L
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	69
Number of Speeds	1		

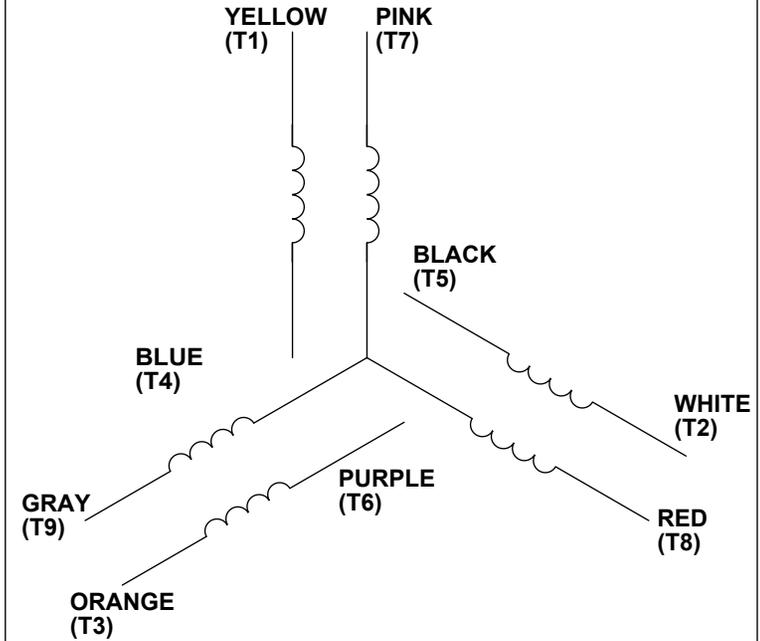
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Stainless Steel
Shaft Type	NEMA 56	Overall Length	11.47 in
Frame Length	6.25 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	028767-625	Connection Drawing	005010.52

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



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

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DRAWING REVISION C	REVISION BY PVR	DATE 04/23/14	TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN BY LST	Regal Beloit America, Inc.
ECO ECO-0049985	APPROVED BY JD	DATE 04/23/14	DEC. ± 0.1 [±2.5]	INCH ± 0.01 [±0.25]	DATE 4/3/14	
ECO DESCRIPTION UPDATED PER ECO-0049985			ANGLE $\pm 0.5^\circ$	XXX ± 0.005 [±0.127]	APPROVED BY	DESCRIPTION LEAD ASSY EXT. WIRING DIA. 3 PH. W/O PROT.
<small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small>			.XXXX ± 0.0005 [±0.0127]	REMOVE BURRS & BREAK SHARP	DATE	MATERIAL
			EDGES: .003/.015 [.076/.381]	CORNER FILLETS: .02 [.51]	MACHINED SURFACES: $\frac{125}{\text{INCH}} \sqrt{\frac{3.2}{\text{mm}}}$	THIRD ANGLE PROJECTION



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

CERTIFICATION DATA SHEET

CATALOG #: 117121.00

CONN. DIAGRAM: 005010.52

OUTLINE: 028767-625

MOUNTING: F1 ONLY

WINDING #: T634252 NR 7 A

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3/4&1/2	0.56&0.37	1800	1725&1425	56C	TENV	L	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	208-230/460&190/380	2.4-2.3/1.15&1.8/9	ACROSS THE LINE	CONTINUOUS	F4	1.15/1.15	40

FULL LOAD EFF:	80&81.5	3/4 LOAD EFF:	79.1	1/2 LOAD EFF:	74.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	76&82.2	3/4 LOAD PF:	70.5	1/2 LOAD PF:	59.4	0	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
36 OZ-FT	18.3 / 9.1	110.6 OZ-FT 307 %	148.8 OZ-FT 413 %	90

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.108 LB-FT^2	0.1 LB-FT^2	10 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	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	NO PAINT

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	6205						

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

* N O T E S *	INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE NONE NONE PPR
	BRAKE: NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 1/31/2018

117121.00



Data @ 460 V

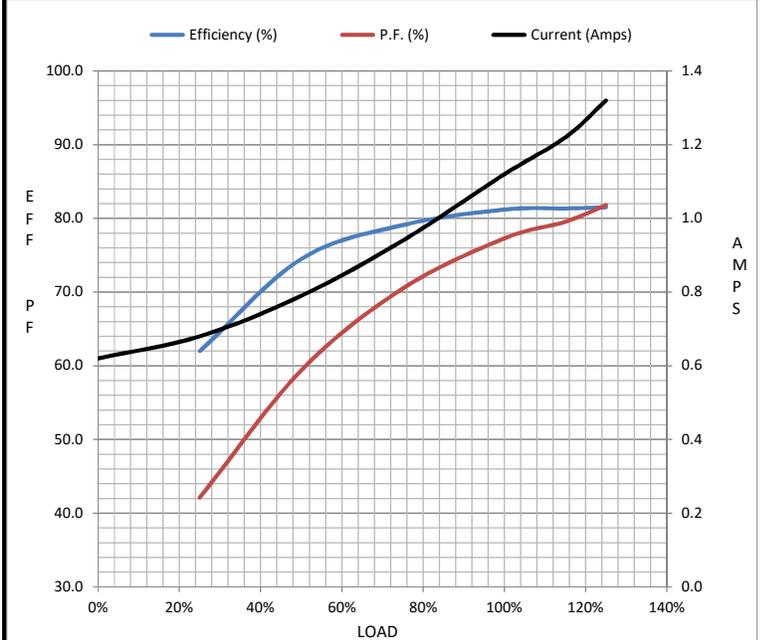
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.62	0.68	0.79	0.94	1.12	1.22	1.32	9.1
Torque (ft-lb)	0.00	143	285	429	577	10,434	726	1,772
RPM	1800	1788	1777	1765	1753	1,748	1740	0
Efficiency (%)		62.0	74.5	79.1	81.2	81.4	81.5	
P.F. (%)	17.0	42.1	59.4	70.5	77.3	79.6	81.8	0.0

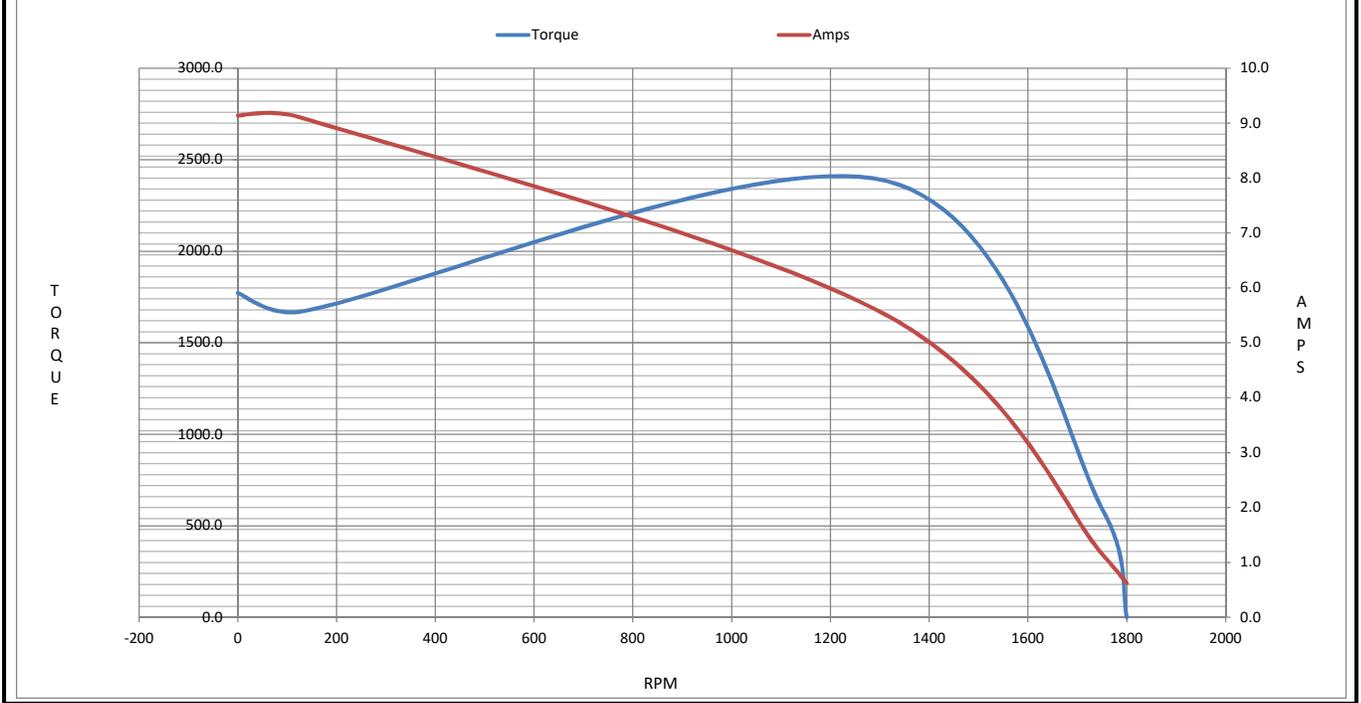
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	129	1314	1753	1800
Current (Amps)	9.1	9.1	5.5	1.12	0.62
Torque (ft-lb)	1,772	1,671	2,384	577	0.00

Information Block				
HP	0.8			
Sync. RPM	1800			
Frame	140			
Enclosure	TENV			
Construction	NA			
Voltage	208-230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	82 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.11 Lb-Ft ²			
Ref Wdg	T634252 NR			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	028767-625			
Conn. Diag	005010.52			
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
100 East Randolph St.
Wausau, WI 54401

and the authorized representative
established within the Community:

Marathon Electric UK
6F Thistleton Road Ind. Estate
Market Overton
Oakham, Rutland LE15 7PP UK

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 : 117121.00

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

Catalog No : 117121.00

Rework No : N/A

Directives :

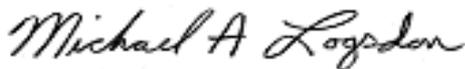
Low Voltage Directive 2014/35/EU

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:



Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

Created on 09/01/2022

CE 22