

# PRODUCT INFORMATION PACKET

Model No: 143TTDR16068  
Catalog No: K2021A  
1,1760,DP,143TC,3/60/230/460  
Open Drip Proof (ODP)



Regal and Marathon are trademarks of Regal Beloit Corporation or one of its affiliated companies.  
©2018 Regal Beloit Corporation, All Rights Reserved. MC017097E





### Nameplate Specifications

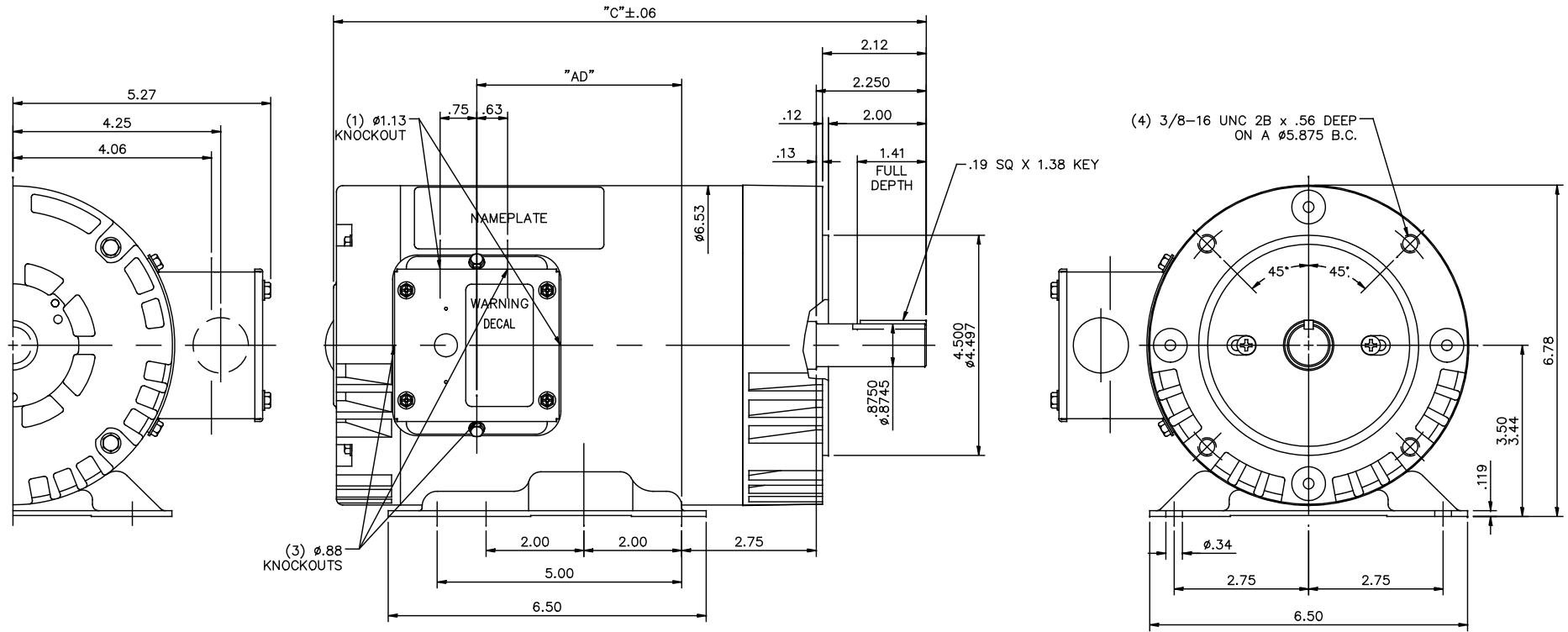
Output HP	<b>1 Hp</b>	Output KW	<b>0.75 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>3.2/1.6 A</b>	Speed	<b>1760 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>85.5 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>N</b>	Frame	<b>143TC</b>
Enclosure	<b>Drip Proof</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6205</b>
Opp Drive End Bearing Size	<b>6203</b>	UL	<b>Recognized</b>
CSA	<b>Y</b>	CE	<b>Y</b>
IP Code	<b>22</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Mounting	<b>Rigid base</b>	Motor Orientation	<b>HORIZONTAL</b>
Drive End Bearing	<b>BALL</b>	Opp Drive End Bearing	<b>BALL</b>
Frame Material	<b>Rolled Steel</b>	Shaft Type	<b>T</b>
Overall Length	<b>12.19 in</b>	Frame Length	<b>7.00 in</b>
Shaft Diameter	<b>0.875 in</b>	Shaft Extension	<b>2.12 in</b>
Assembly/Box Mounting	<b>F1 ONLY</b>		
Outline Drawing	<b>607-0290-700</b>	Connection Diagram	<b>005010.01</b>

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 10/30/2018

607-0290



DASH NO.	"C"	"AD"
650	11.69	3.69
700	12.19	4.19
750	12.69	4.69
800	13.19	5.19
850	13.69	5.69
900	14.19	6.19

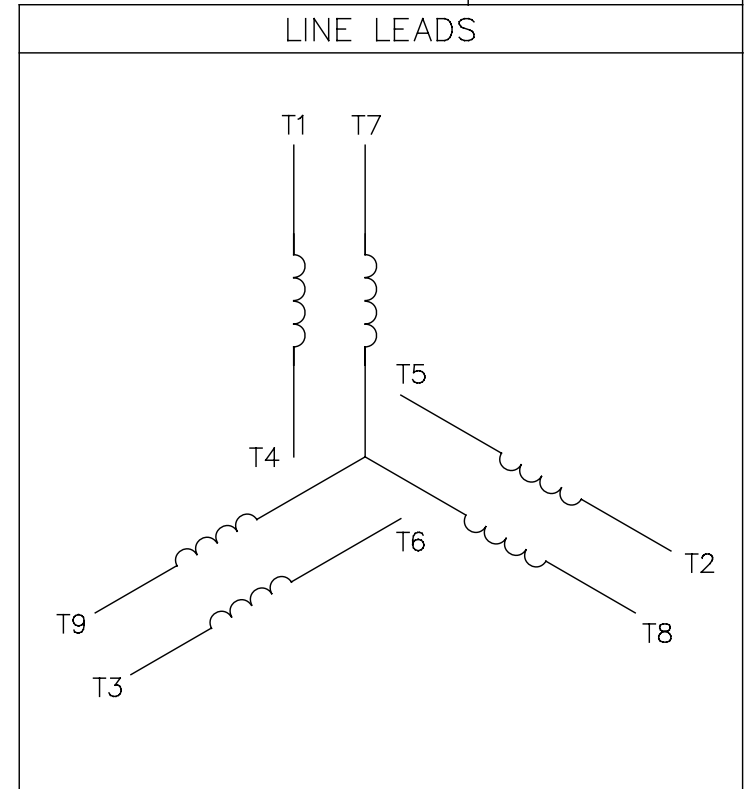
MAXIMUM FACE RUNOUT TO BE .004 T.I.R.  
 MAXIMUM PILOT ECCENTRICITY .004 T.I.R.  
 PERMISSIBLE SHAFT RUNOUT TO BE .002 T.I.R.

				TOLERANCES UNLESS SPECIFIED		DRAWN AS 01/23/17	
				DEC.	INCHES	CHK PK 01/23/17	
				.X	$\pm .1$	APPD PK 01/23/17	
				.XX	$\pm .03$	SCALE 1=2	
B	NRE DRAWING - RE-RELEASED	AS 01/24/17	PK .XXX	$\pm .005$	TITLE OUTLINE - 140TC FRAME DRIP PROOF - RIGID "C" FACE		REF OLM150729
A	NEW DRAWING PER NMR-0085943	AS 01/23/17	PK .XXXX	$\pm .0005$	MAT'L		FMF
NO.	REVISION	BY & DATE	CHK ANG	$\pm 1/2'$	FINISH		PREV
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	CAD FILE	607-0290	SIZE DRAWING NO.
				DIST			B 607-0290 B

**REGAL**™ Regal Beloit America, Inc.

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



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		<b>REGAL</b> ™ <b>Regal Beloit America, Inc.</b>		DRAWN RDW 04/12/02				
				DEC.	INCHES			CHK				
				.X	±.1			APPD				
				.XX	±.01			SCALE 1=1				
				.XXX	±.005	TITLE		REF FIG.2-51				
A	UPDATED TO REGAL LOGO			SAJ	06/26/15	AJY	.XXXX	±.0005	MAT'L.	DECAL - 004014	FMF	
NO.	REVISION			BY & DATE	CHK	ANG	±1/2"	FINISH	PREV			
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	04/12/02		CAD FILE	00501001		SIZE	DRAWING NO.	REV.
				DIST	BRF-NLV				A	005010-01	A	



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER P.O. #:   
 ORDER #: 00501001  
 REFERENCE MODEL #: 143TTDR16068  
 CONN. DIAGRAM: 607-0290-700  
 CAT #: N/A  
 WINDING: T634342 DR 3  
 CUSTOMER PART #:   
 MOUNTING: F1 ONLY  
 SPEED:   
 TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1	0.75	1800	1780	143TC	DP	TDR	N	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	3.2/1.6	ACROSS-THE LINE	CONT	F	1.15	40	3300
	F.L. EFF	85.5	3/4 LD EFF	85.2	1/2 LD EFF	81.7	GTD EFF	ELECT. TYPE	
	F.L. PF	68.5	3/4 LD PF	62.8	1/2 LD PF	48.0	84.0	SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
2.98 LB-FT	14.5	12.0 LB-FT	15.0 LB-FT	503%
@ 3 FT.	POWER	ROTOR WK <sup>2</sup>	MAX. LOAD WK <sup>2</sup>	SAFE STALL TIME
0 DBA	9 DBA	0.12 LB-FT <sup>2</sup>	0.1 LB-FT <sup>2</sup>	2 SEC.
				START/SHOUR
				MOTOR WGT
				0 LB.

\*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	GRAY - GE

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE BALL 6203	POLYREX EM	T	NONE	NONE	1144	STRESSPROOF (C-223)	ROLLED STEEL

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	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	0.150	NONE

* N		INVERTER TORQUE: NONE	
O	INV. HP SPEED RANGE: NONE		
T	ENCODER: NONE		
E	BRAKE: NONE		
S	FT-LB: NONE		
	VOLTAGE: NONE		
	HZ: NONE		

PREPARED BY: FAREEDA DUDEKULA  
 DATE: 8/30/2018  
 FORM: 3531 REV 4 2/27/06  
 UL: V-INS, CONST UL REC

Data Sheet

143TDR16088



Submital Data @ 460 V

Date: 8/30/2018  
 Customer:   
 Attention:   
 Submitted by: FAREEDA DUDEKULA

		Motor Load Data									
Load	0%	25%	50%	75%	100%	115%	125%	LR			
Current (Amps)	0.99	1.10	1.19	1.31	1.60	1.80	1.90	14.5			
Torque (ft-lb)	0.00	0.73	1.47	2.22	2.98	3.4	3.8	12.0			
RPM	1800	1791	1780	1770	1760	1,754	1749	0			
Efficiency (%)		72.8	81.7	85.2	85.5	86.0	84.7				
P.F. (%)	8.2	29.1	48.0	62.8	68.5	69.4	72.7	0.0			

		Motor Speed Data						Information Block																				
	LR	Pull-Up	BD	Rated	Idle		HP	Sync. RPM	Frame	Enclosure	Construction	Voltage	Frequency	Design	LR Code letter	Service Factor	Temp Rise @ FL	Duty	Ambient	Elevation	Motor/Shaft wk <sup>2</sup>	Ret Wdg	Sound Pressure @ 1M	VFD Rating	Outline Dwg	Com. Diag	Additional Specifications:	
Speed (RPM)	0	900	1575	1760	1800		1.0	1800	140182TFC080	DP	TDR	230/460	60	A	N	1.15	21	CONT	40	1,000	0.12	DR	0	NONE	607-0290-700	005010.01		
Current (Amps)	14.5	13.0	9.9	1.60	0.99																							
Torque (ft-lb)	12.0	11.0	15.0	2.98	0.00																							

