

PRODUCT INFORMATION PACKET



Model No: 143TTGR16026

Catalog No: I502

Explosion Proof Motor, 1 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 143T Frame, EPFC



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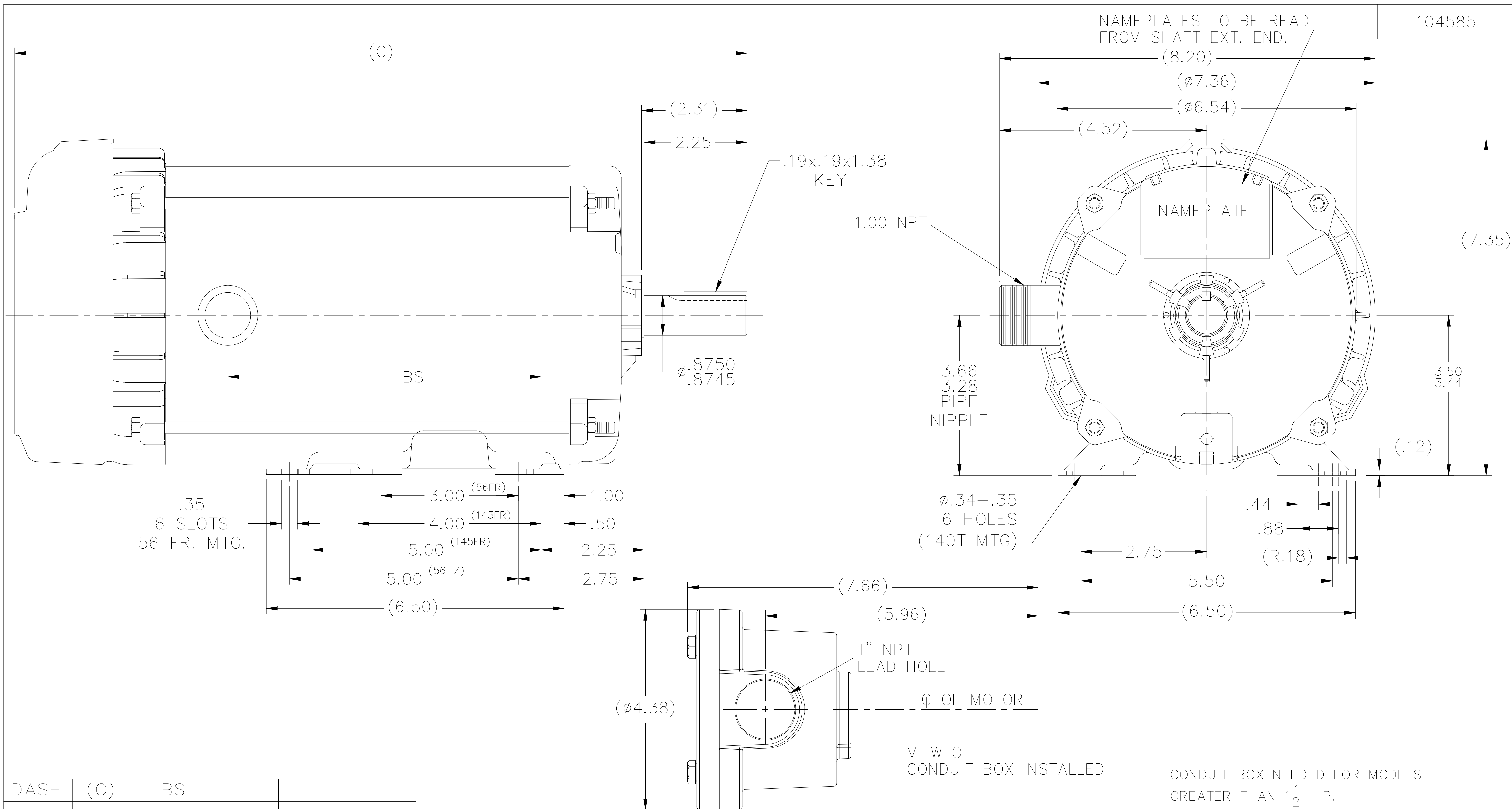
Nameplate Specifications

Phase	3	Output HP	1 Hp
Output KW	0.75 kW	Voltage	230/460 V
Speed	1765 rpm	Service Factor	1.00
Frame	143T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	85.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	3.3/1.7 A	Power Factor	68
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	P
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	DIV 1 EXP PROOF CL I GR CD CL II GR EFG T3B


Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	11.8 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	16.00 in
Frame Length	8.81 in	Shaft Diameter	0.875 in
Shaft Extension	2.31 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	A-EE7308T	Outline Drawing	B-104585-881

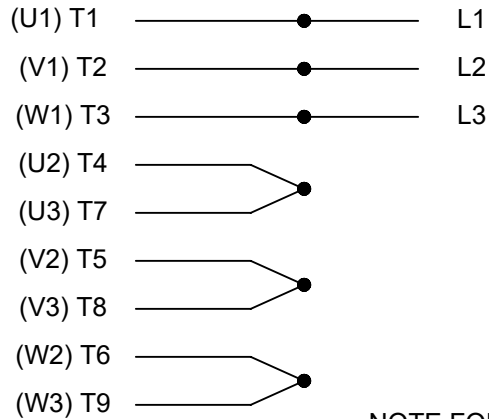
104585



DASH	(C)	BS			
681	14.00	4.84			
731	14.50	5.34			
781	15.00	5.84			
831	15.50	6.34			
881	16.00	6.84	SHOWN		
931	16.50	7.34			
981	17.00	7.84			

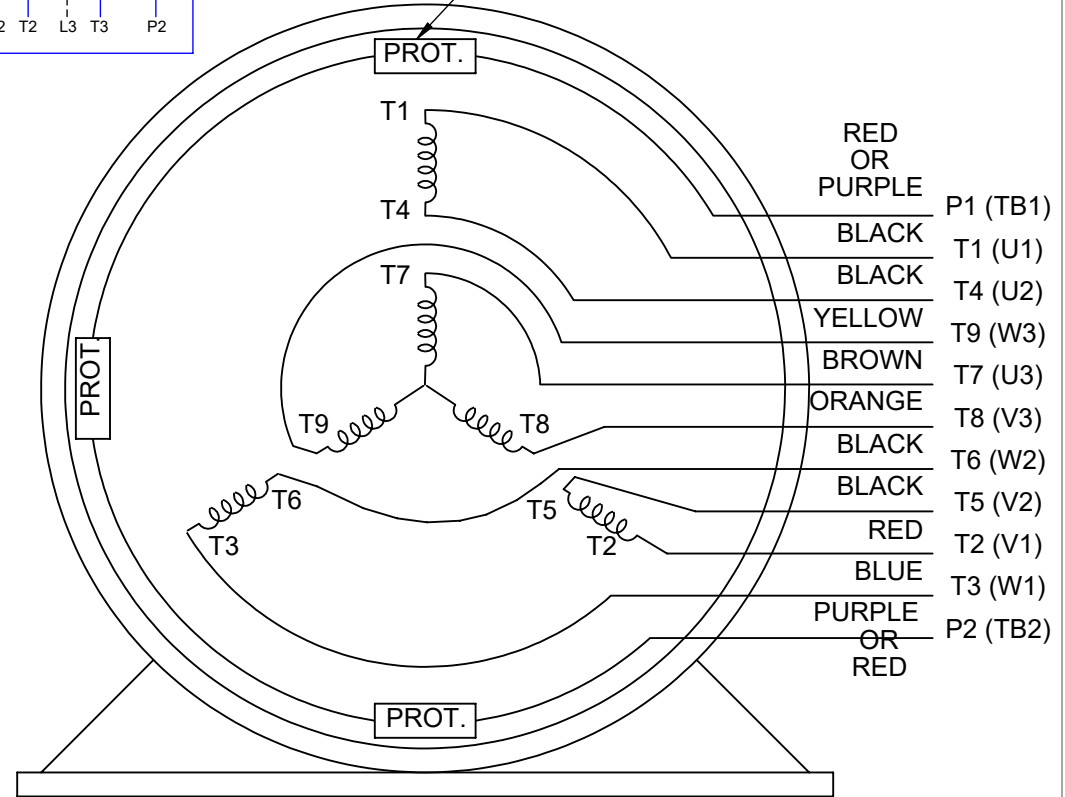
				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN BLR 05-10-1999					
				DEC.	INCHES		CHK	ML	05-11-1999			
4	UPDATED LOGO	SG	08/07/2020	PVR	.X	$\pm .1$						
3	REVISED C'BOX PER CN40784A	JJB	02/23/2007	ML	.XX	$\pm .03$	TITLE	OUTLINE				
2	REDRAWN IN AUTOCAD, REMOVED -631 CN 46098	MJK	06/17/2005		.XXX	$\pm .005$	140 FR. - EXP. PR. - TEFC - 1 ϕ & 3 ϕ			SCALE 1=2		
1	NEW DRAWING MU 24921	BLR	05-12-1999		.XXXX	$\pm .0005$	MAT'L.			REF		
NO.	REVISION	BY & DATE	CHK	ANG	$\pm 7'30''$	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 104585			SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST	WP	B	104585					4

HIGH VOLTAGE



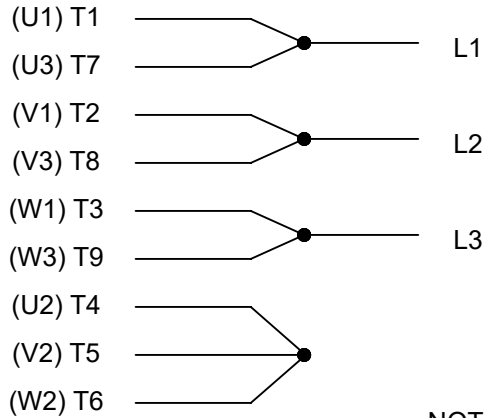
**THREE PHASE
DUAL VOLTAGE MOTOR**

THERMO-PROTECTORS
CONNECTED IN SERIES



NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE



VIEW OF TERMINAL END

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

DRAWING REVISION T	REVISION BY ZR	DATE 01-14-2019		DRAWN BY SMC	Regal Beloit America, Inc.	
ECO ECO-0159915	APPROVED BY DR	DATE 01-15-2019		DATE 05-13-1992		
ECO DESCRIPTION ADDED TERMINAL CONNECTION DIAGRAM				APPROVED BY TB	DESCRIPTION CONN DIAGRAM-INTERNAL 3 PHASE - DUAL VOLTAGE MOTOR	
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			REFERENCE EE7308/EE7300	SIZE A	DRAWING NUMBER EE7308T	SHEET 1 OF 1
			THIRD ANGLE PROJECTION			

Data Sheet

Date: 1/3/2019
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



143TTGR16026

Submittal

Data @ 460 V

Motor Load Data

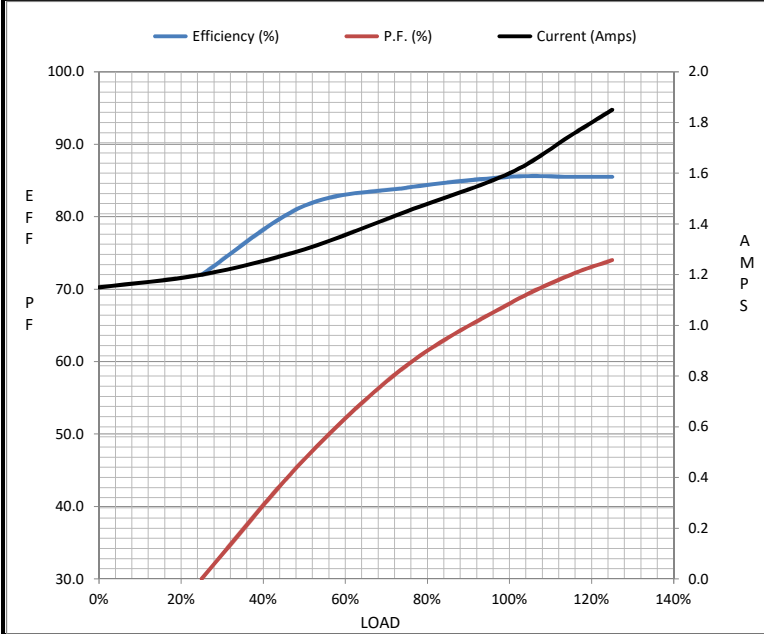
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.15	1.20	1.30	1.45	1.60	1.75	1.85	17.0
Torque (ft-lb)	0.00	0.75	1.50	2.25	3.0	3.5	3.8	13.7
RPM	1800	1790	1785	1775	1765	1,760	1755	0
Efficiency (%)		72.0	81.5	84.0	85.5	85.5	85.5	
P.F. (%)	7.5	30.0	46.5	59.5	68.0	72.0	74.0	69.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	115	1270	1765	1800
Current (Amps)	17.0	16.0	11.0	1.60	1.15
Torque (ft-lb)	13.7	12.5	16.8	3.0	0.00

Information Block

HP	1.0			
Sync. RPM	1800			
Frame	143			
Enclosure	EPFC			
Construction	TGR			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	P			
Service Factor	1			
Temp Rise @ FL	30 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	3300 feet			
Rotor/Shaft wk ²	0.12 Lb-Ft ²			
Ref Wdg	ZT4257 FR			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	B-104585-881			
Conn. Diag	A-EE7308T			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
2.4250	1.6020	3.1050	2.7720	75.8630



Speed - Torque Curve

