

PRODUCT INFORMATION PACKET



Model No: B199032.00

Catalog No: B199032.00

General Purpose Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1200 & 1000 RPM,
365T Frame, TEFC



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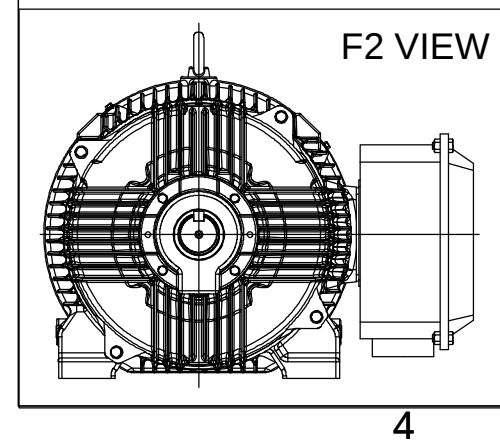
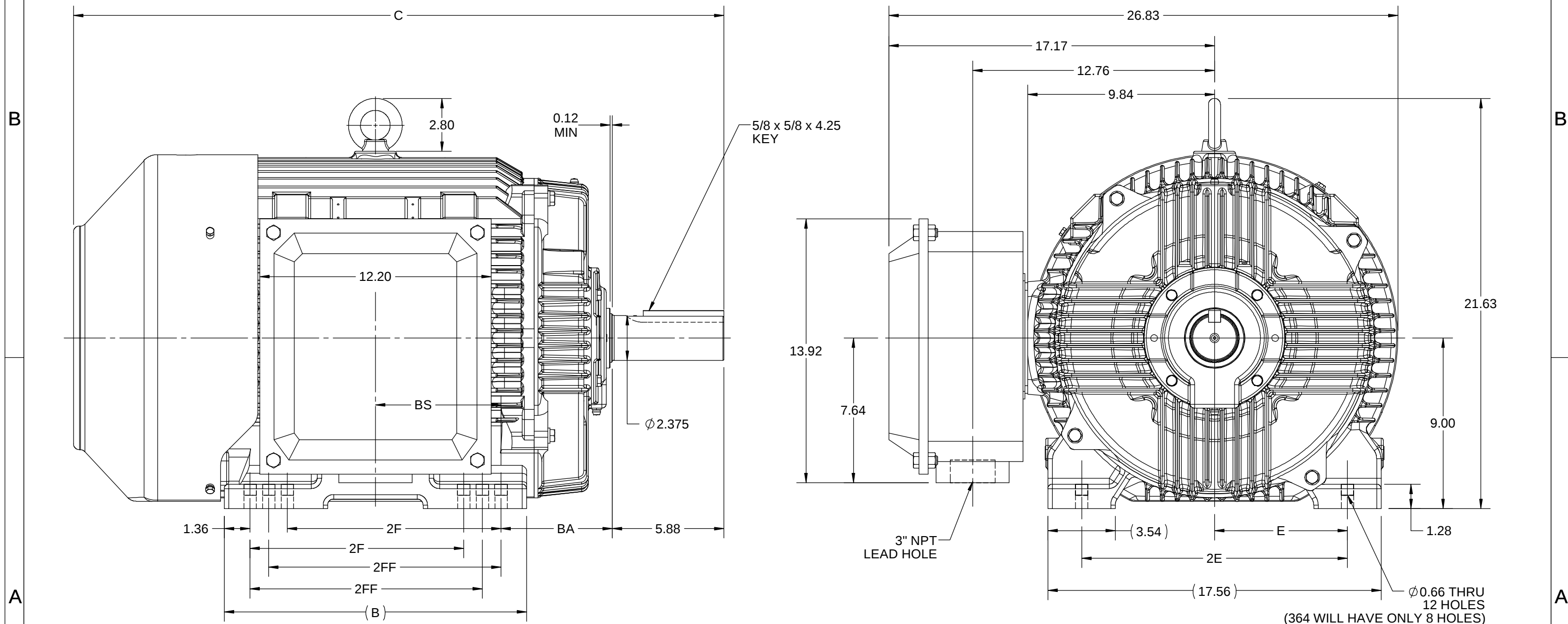
Nameplate Specifications

Phase	3	Output HP	50 & 40 Hp
Output KW	37.0 & 30.0 kW	Voltage	230/460 & 190/380 V
Speed	1188 & 988 rpm	Service Factor	1.15 & 1.15
Frame	365T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.1 & 93.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	121/60.5 & 119/59.5 A	Power Factor	82.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213
UL	Listed	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.1329 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	34.30 in
Frame Length	16.73 in	Shaft Diameter	2.375 in
Shaft Extension	5.88 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	SS556999-365T	Connection Drawing	EE7308AA

4						3					2		1	
DASH NO.	B	C	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME				
100	14.96	33.30	7.00	14.00	-	11.25	5.88	6.12	F1 OR F2	364T				
200	15.94	34.30			11.25	12.25		6.62		364/365T				



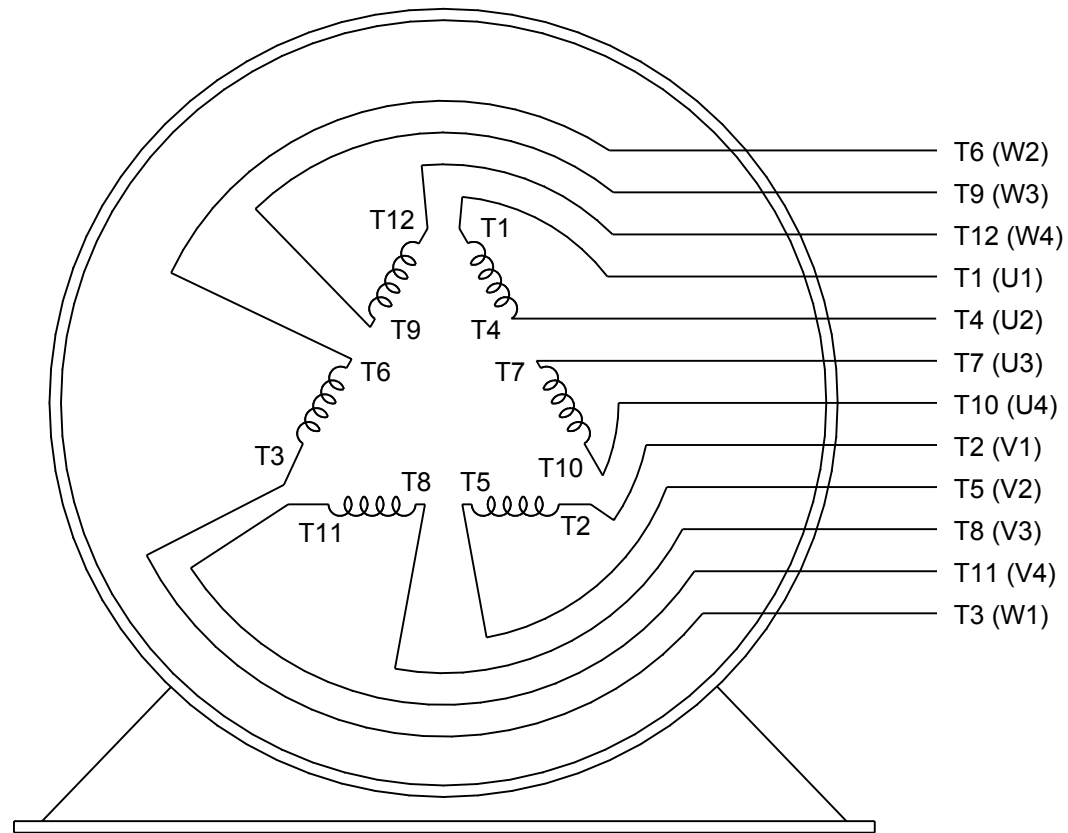
DRAWING REVISION C		REVISION BY S SAHOO		REV DATE/© DATE 17/11/2020		PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY NIV		Regal Beloit America, Inc.						
ECO ECO-0194715		APPROVED BY GNK		DATE 17/11/2020			DATE 25/03/2016		DESCRIPTION OUTLINE 360T FR-TEFC						
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							DATE 25/03/2016								
							REFERENCE		MATERIAL		PROCESS/FINISH				
						THIRD ANGLE PROJECTION				SIZE B		DRAWING NUMBER SS556999		SHEET 1 OF 1	



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION K	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC 60034-8		
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DRAWN BY LZ	 Regal Beloit America, Inc.	
DATE 01-12-1994		
APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL	
DATE 01-14-1994	3Ø-2/1 DELTA-12 LEADS	
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION 	SIZE A	DRAWING NUMBER EE7308AA
		SHEET 1 OF 1



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7308AA
OUTLINE: SS556999
WINDING: HE32256004

CAT #: B199032.00

NONE 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
50	37	1200	1188	365T	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	121/60.5&119/59.5	START D RUN OR INV	CONT	F	1.15	40	3300

F.L. EFF	94.1	3/4 LD EFF	94.1	1/2 LD EFF	93.6	GTD EFF	93.6	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	82.5	3/4 LD PF	78.0	1/2 LD PF	68.5				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
221 LB-FT	362	398 LB-FT 180%	620 LB-FT 281%	65

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
68 dBA	77 dBA	27.5 LB-FT²	900 LB-FT²	20 SEC.	2	1075 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	DIVISION 2 T2B	NO	NONE	BLUE (ENAMEL)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6313 6213						

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
0.083	0.05	0.34	0.629	10.546	0.080	ODE

* N O T E S *		INVERTER TORQUE: VARIABLE 10:1 INV. HP SPEED RANGE: NONE ENCODER: NONE NONE NONE
		NONE PPR

DATE: 1/19/2018	BRAKE: NONE
	NONE NONE NONE
	FT-LB: NA VOLTAGE: NONE HZ:
UL: D - LE, WUXI TEFC BLUEWHALE CLASS 1 DIV. 2 UL LISTED	

Data Sheet

Date: 1/19/2018

B199032.00



Data @ 460 V

Motor Load Data

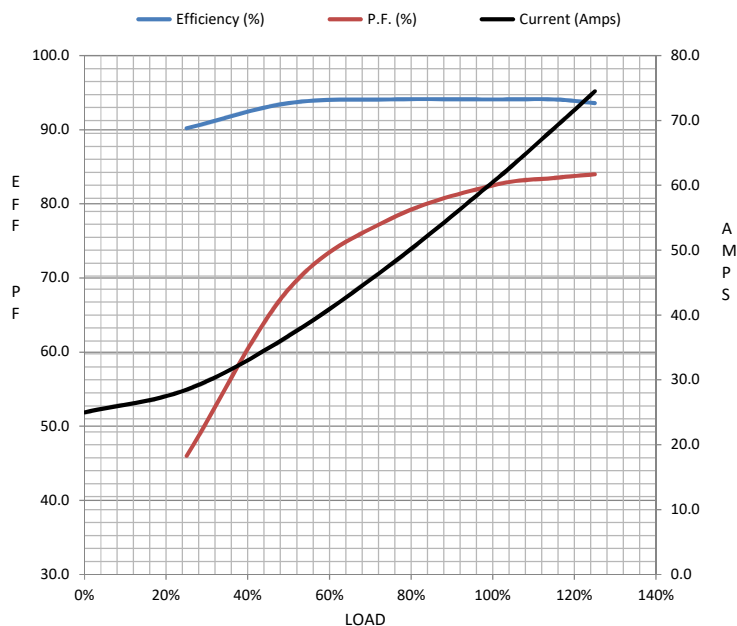
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	25.0	28.5	36.8	47.8	60.5	68.8	74.5	362	
Torque (ft-lb)	0.00	55.0	110	165	221	255	277	398	
RPM	1200	1198	1195	1190	1188	1,185	1184	0	
Efficiency (%)		90.2	93.6	94.1	94.1	94.1	93.6		
P.F. (%)	5.0	46.0	68.5	78.0	82.5	83.5	84.0	34.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1135	1188	1200
Current (Amps)	362	290	215	60.5	25.0
Torque (ft-lb)	398	335	620	221	0.00

Information Block

HP	50.0			
Sync. RPM	1200			
Frame	365			
Enclosure	TEFC			
Construction	TFC			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	27.5 Lb-Ft²			
Ref Wdg	HE32256004 NONE			
Sound Pressure @ 1M	68 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS556999			
Conn. Diag	EE7308AA			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0830	0.0500	0.3400	0.6290	10.5460



Speed - Torque Curve

