

PRODUCT INFORMATION PACKET

Model No: 112MTFC4511

Catalog No: R324

Cast Iron Motor, 5.50 & 5.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM,
112M V Frame, TEFC



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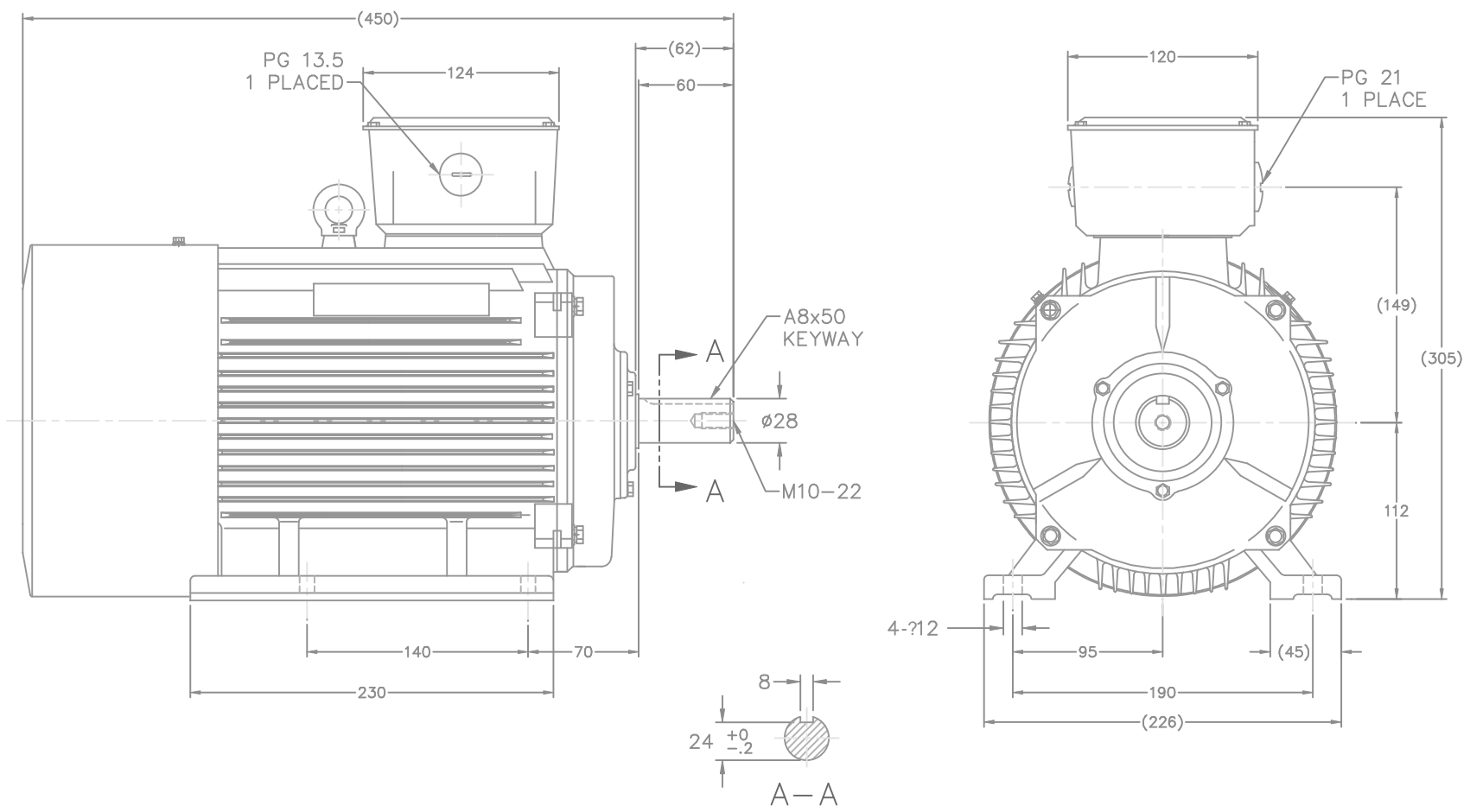
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Nameplate Specifications

Phase	3	Output HP	5.50 & 5.50 Hp
Output KW	4.1 & 4.1 kW	Voltage	230/460 & 200/400 V
Speed	3500 & 2880 rpm	Service Factor	1.15 & 1.15
Frame	112M V	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	87.5 & 86.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	12.6/6.3 & 14.6/7.3 A	Power Factor	93.1
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6306
UL	No	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	2.57 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal Or Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	17.71 in
Shaft Diameter	1.111 in	Shaft Extension	2.36 in
Assembly/Box Mounting	F3		
Outline Drawing	SS620004	Connection Drawing	A-EE7308



ALL DIMENSIONS TO BE REF. DIMENSION.

		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN CTD 08-04-2004					
		DEC.	INCHES			CHK	ML 08-04-2004				
		.X	±.1	TITLE OUTLINE - IEC 112M FR.		APPD	SB 08-04-2004				
		.XX	±.03			SCALE	3=8				
		.XXX	±.005			REF					
1	ADDED SHAFT DETAIL AND FOOT HOLE DIM'S CN 38637	DRS	11-22-2004	ML	.XXXX	±.0005	MAT'L				
NO.	REVISION	BY & DATE		CHK	ANG	±7'30"	FINISH				
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 ss620004		SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST	WA		B	SS620004	1		1

EE7308

THREE PHASE
DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD
CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

NO.		REVISION		BY & DATE		CHK		ANG		FINISH		PREV	
5	CHG TO REGAL LOGO	SL	09/10/2015	AB									
4	REVISED IEC NOTATIONS	MSG	11/15/2011	CMN	.X	±.1							
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG	5/10/2010	MJS	.XX	±.02							
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH	04/24/2003	DRS	.XXX	±.005							
1	REDRAWN	RM	11/20/1990		.XXXX	±.0005							
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		DIST	WP	A	EE7308							5	

REGAL™ Regal Beloit America, Inc. DRAWN RM 11/20/1990
CHK ML 11/21/1990
APPD SAS 04/24/2003

TITLE CONNECTION DIAGRAM
3Ø - DUAL VOLTAGE MOTOR
SCALE 1=1
REF
MAT'L.
FINISH



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____ **CUSTOMER P.O. #:** _____
ORDER #: _____ **REFERENCE MODEL #:** 112MTFC4511
CONN. DIAGRAM: A-EE7308 **CAT #:** R324
OUTLINE: SS620004 **CUSTOMER PART #:** _____
WINDING: 112MTFC4511 NONE 1 **MOUNTING:** F3
SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
5.5	4.1	3600	3500	112M	TEFC	TFC	H	N

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#200/400	12.6/6.3&14.6/7.3	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	87.5	3/4 LD EFF	87.5	1/2 LD EFF	86.5	GTD EFF	ELECT. TYPE
F.L. PF	93.1	3/4 LD PF	91.5	1/2 LD PF	87.5	85.5	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
8.3 LB-FT	47.5	17.0 LB-FT 205%	25.8 LB-FT 311%	40

@ 3 FT.	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
72 dBA	81 dBA	0.00 LB-FT ²	0 LB-FT ²	0 SEC.	0	120 LB.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	ZONTAL OR SHAFT D	TRUE	NONE	NO	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	STANDARD IEC	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
BALL	BALL						
6306	6306						

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	ODE

* N O T E S *	INVERTER TORQUE: CONSTANT 20:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED					
	ENCODER: NONE NONE NONE NONE PPR					

PREPARED BY: EARL BABBITTS DATE: 5/5/2017	BRAKE: NONE NONE NONE FT-LB: NA VOLTAGE: NONE HZ:					
	UL: NONE					

FORM: 3531 REV_4 2/27/06

Data Sheet

Date: 5/5/2017
 Customer: _____
 Attention: _____
 Submitted by: EARL BABBITTS



112MTFC4511

Submittal

Data @ 460 V

Motor Load Data

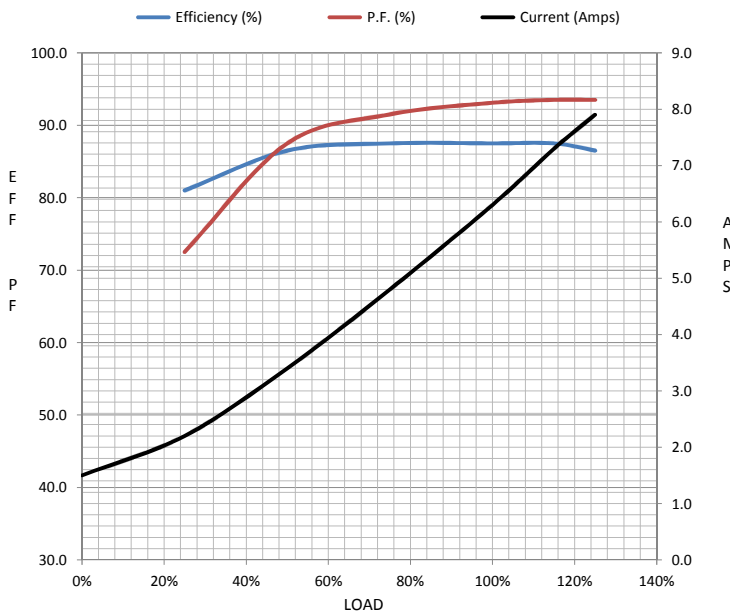
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.50	2.20	3.4	4.8	6.3	7.3	7.9	47.5
Torque (ft-lb)	0.00	2.00	4.1	6.2	8.3	9.6	10.5	17.0
RPM	3600	3575	3555	3525	3500	3480	3470	0
Efficiency (%)		81.0	86.5	87.5	87.5	87.5	86.5	
P.F. (%)	17.0	72.5	87.5	91.5	93.1	93.5	93.5	49.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1000	2885	3500	3600
Current (Amps)	47.5	42.0	30.0	6.3	1.50
Torque (ft-lb)	17.0	15.0	25.8	8.3	0.00

Information Block

HP	5.5			
Sync. RPM	3600			
Frame	112			
Enclosure	TEFC			
Construction	TFC			
Voltage	30/460#200/40V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	40 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.00 Lb-Ft ²			
Ref Wdg	112MTFC4511 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	SS620004			
Conn. Diag	A-EE7308			
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

