

PRODUCT INFORMATION PACKET

Model No: 100LTFC4576

Catalog No: R320

Cast Iron Motor, 2 & 1.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 & 1000 RPM, 100L Frame,
TEFC



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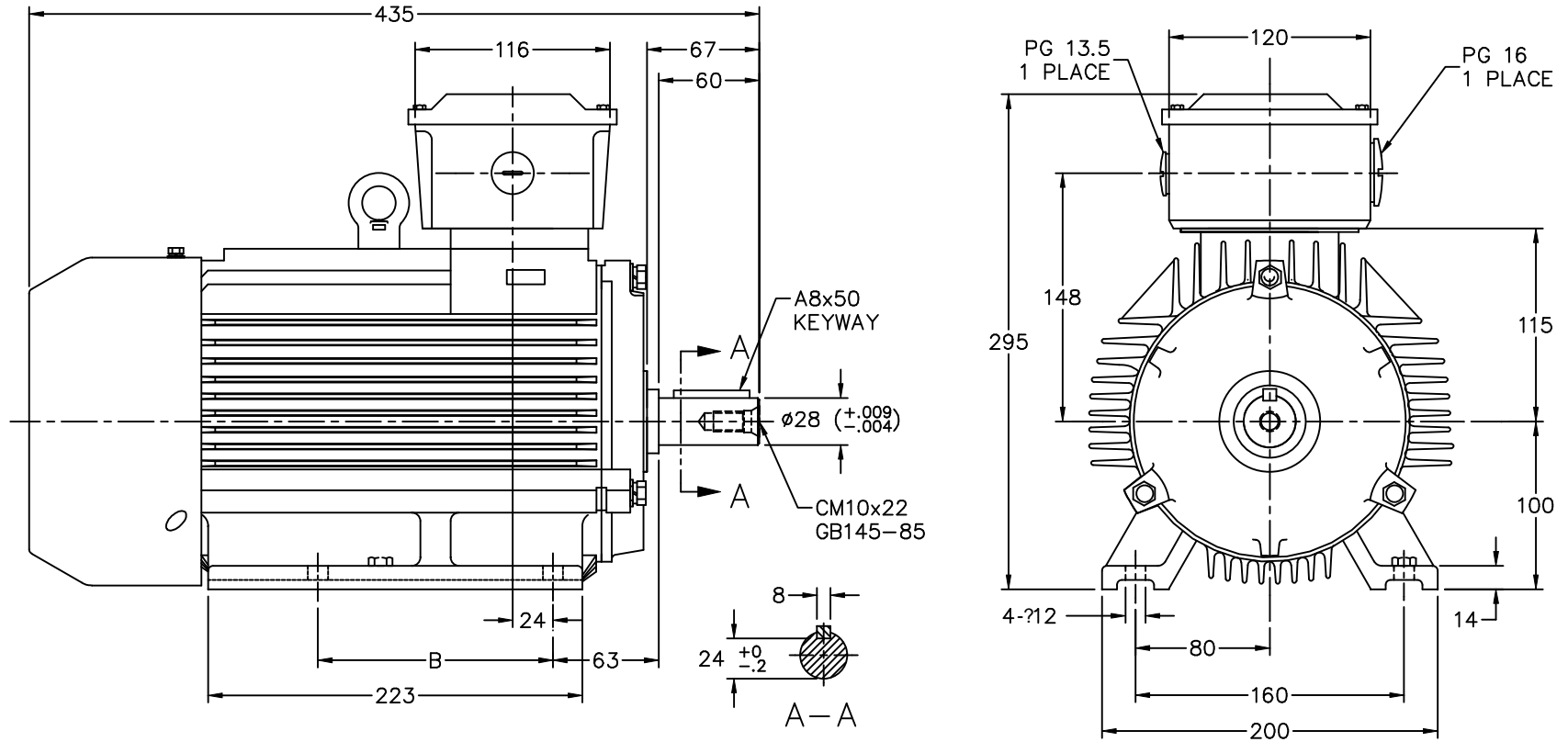
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Nameplate Specifications

Phase	3	Output HP	2 & 1.50 Hp
Output KW	1.5 & 1.1 kW	Voltage	230/460 & 200/400 V
Speed	1180 & 925 rpm	Service Factor	1.15 & 1.0
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	86.5 & 82 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	6.0/3.0 & 8.6/4.3 A	Power Factor	72.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	L
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6306
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	5.13 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	17.12 in
Shaft Diameter	1.111 in	Shaft Extension	2.36 in
Assembly/Box Mounting	F3		
Outline Drawing	SS620006-100L	Connection Drawing	00501001ME



ALL DIMENSIONS TO BE REF. DIMENSION.

FRAME	B	
100L	140	

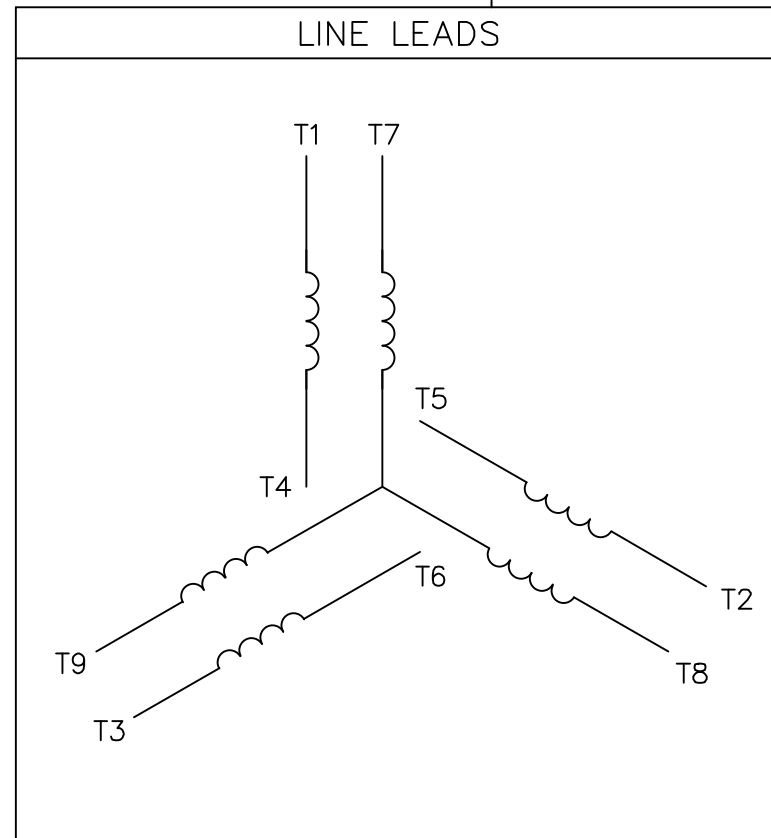
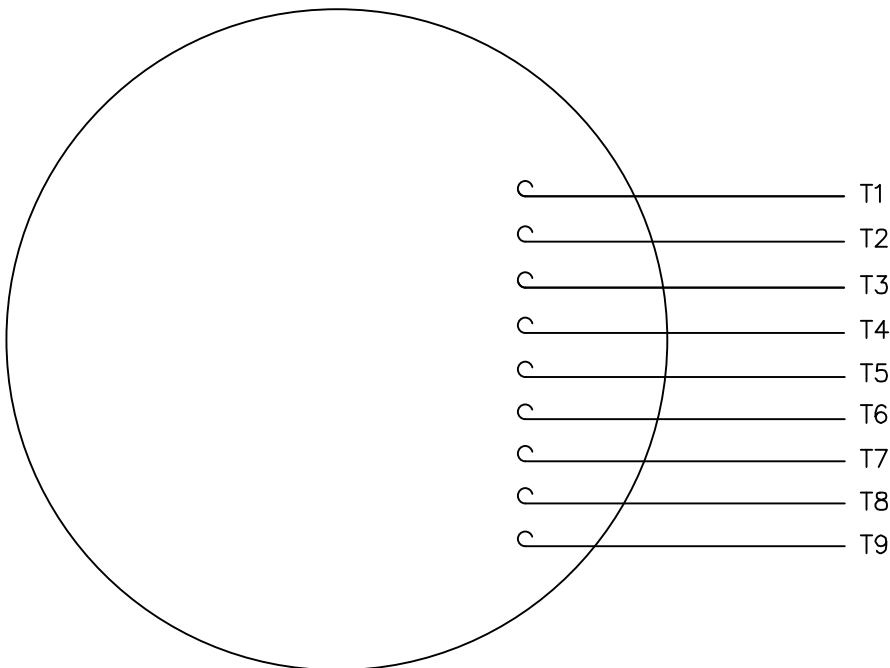
		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN CTO 10-04-2004	
DEC.	METRIC	CHK	ANG		CHK	ML
.X	±2.5					10-04-2004
.XX	±.76					10-04-2004
.XXX	±.127					10-04-2004
.XXXX	±.0127					
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	PREV
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				B	SS620006	REV.

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OFFENDING COMMAND: --nostringval--

STACK:

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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		DRAWN RDW 04/12/02					
		DEC.	INCHES	CHK					
		.X	±.1	APPD					
		.XX	±.01	SCALE 1=1					
		.XXX	±.005	REF FIG.2-51					
		.XXXX	±.0005	FMF					
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	PREV			
				±1/2"					
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			DIST				A	005010-01ME	



TITLE EXTERNAL WIRING DIAGRAM
3 PHASE W/O PROTECTOR
MAT'L. DECAL - 004014



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 #:** 100LTFC4576
CONN. DIAGRAM: 00501001ME **CAT #:** R320
OUTLINE: SS620006-100L **CUSTOMER PART #:** _____
WINDING: 100LTFC4576 NONE 1 **MOUNTING:** F3
SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
2	1.5	1200	1180	100L	IP55	TFS	L	N

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#200/400	g Group Reference Volta	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	86.5	3/4 LD EFF	85.5	1/2 LD EFF	82.5	GTD EFF	ELECT. TYPE
F.L. PF	72.5	3/4 LD PF	65.5	1/2 LD PF	53.5	84.0	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
8.9 LB-FT	21.8	20.5 LB-FT 230%	30.9 LB-FT 347%	26

@ 3 FT.	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
55 dBA	64 dBA	0.00 LB-FT ²	0 LB-FT ²	20 SEC.	2	110 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	NONE	NO	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	VERIFY	STANDARD IEC	NONE	NONE	VERIFY	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 2:1 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: V-INS, CONST UL REC
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FORM: 3531 REV_4 2/27/06

Data Sheet

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



100LTC4576

Submittal

Data @ 460 V

Motor Load Data

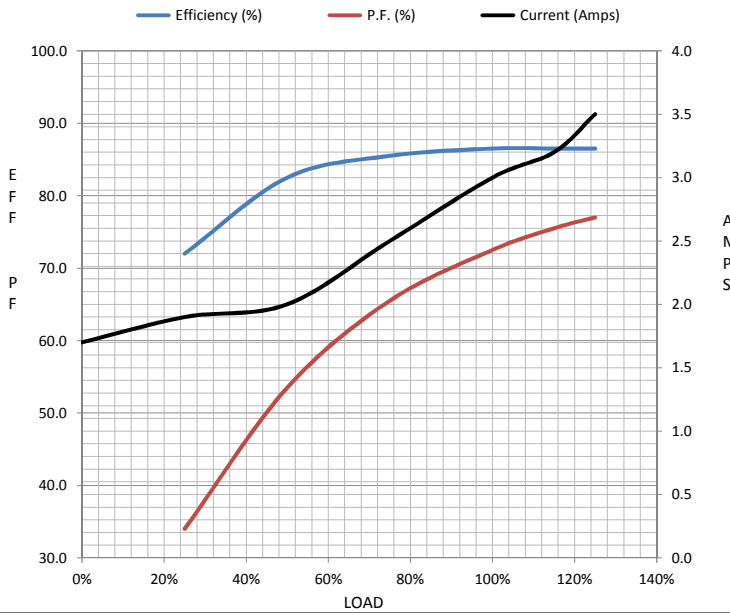
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.70	1.90	2.00	2.50	3.0	3.2	3.5	21.8
Torque (ft-lb)	0.00	2.20	4.4	6.6	8.9	10.5	11.0	20.5
RPM	1200	1195	1190	1185	1180	1,175	1170	0
Efficiency (%)		72.0	82.5	85.5	86.5	86.5	86.5	
P.F. (%)	9.5	34.0	53.5	65.5	72.5	75.5	77.0	43.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1045	1180	1200
Current (Amps)	21.8	16.8	9.5	3.0	1.70
Torque (ft-lb)	20.5	12.0	30.9	8.9	0.00

Information Block

HP	2.0			
Sync. RPM	1200			
Frame	100			
Enclosure	IP55			
Construction	TFS			
Voltage	30/460#200/40V			
Frequency	60 Hz			
Design	B			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	26 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.00 Lb-Ft ²			
Ref Wdg	100LTC4576 NONE			
Sound Pressure @ 1M	55 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	SS620006-100L			
Conn. Diag	00501001ME			
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

