

# PRODUCT INFORMATION PACKET

marathon®  
Motors

Model No: 056H17F2017

Catalog No: Y362

microMAX™ Inverter Duty Speed Ratio Motor, 0.75 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 56C Frame, TEFC



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RegalRexnord®

### Nameplate Specifications

Output HP	<b>0.75 Hp</b>	Output KW	<b>0.56 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>2.8/1.4 A</b>	Speed	<b>1725 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>75.5 %</b>	Power Factor	<b>70.5</b>
Duty	<b>Continuous</b>	Insulation Class	<b>H</b>
Design Code	<b>INV</b>	KVA Code	<b>L</b>
Frame	<b>56C</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6203</b>	Opp Drive End Bearing Size	<b>6203</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

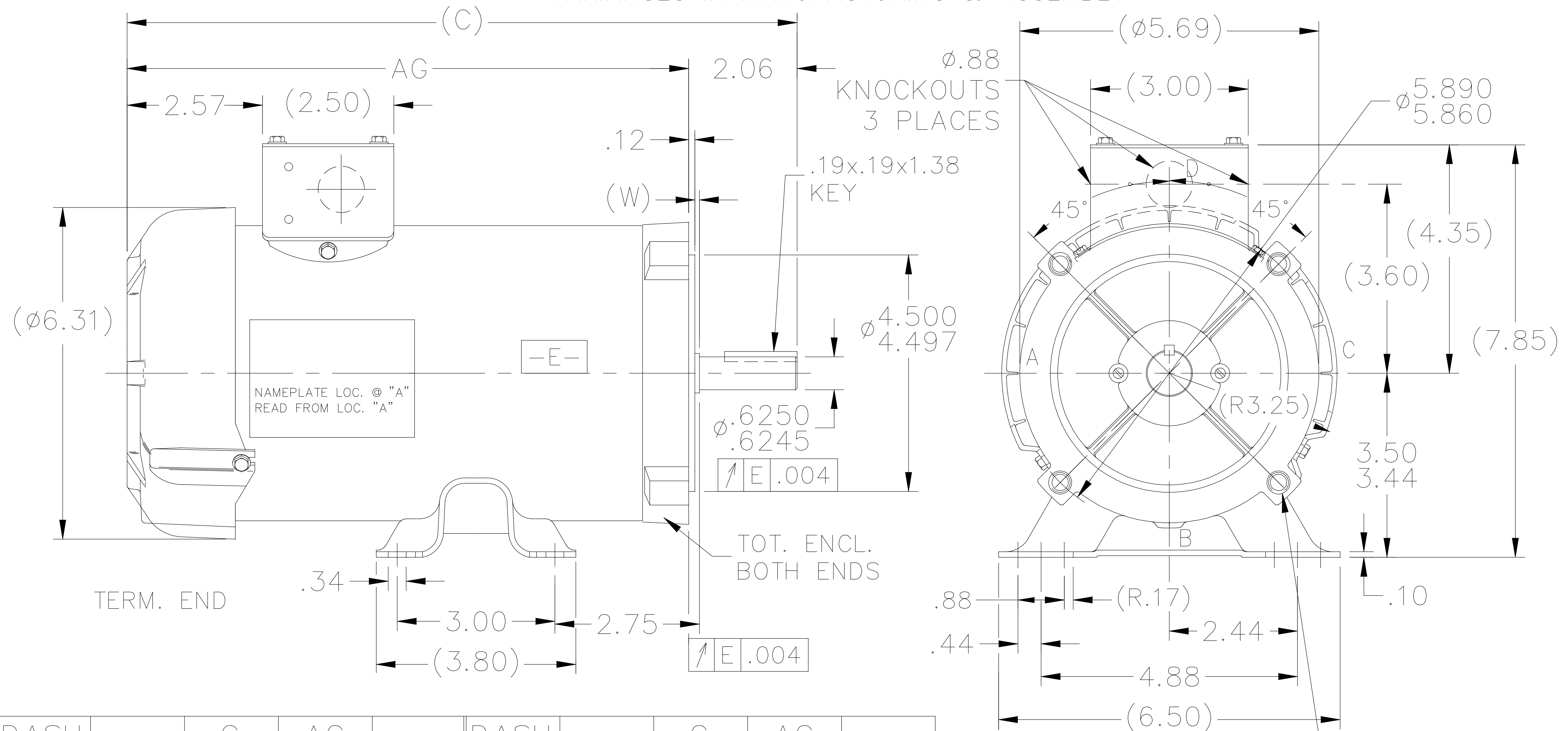
### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Duty</b>	Starting Method	<b>Inverter Only</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>23 Ohms</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>NEMA 56</b>	Overall Length	<b>11.19 in</b>
Frame Length	<b>6.25 in</b>	Shaft Diameter	<b>0.625 in</b>
Shaft Extension	<b>2.06 in</b>	Assembly/Box Mounting	<b>F3</b>
Inverter Load	<b>CONSTANT 20:1</b>		
Outline Drawing	<b>A-SS75928-625</b>	Connection Drawing	<b>A-EE7308</b>



SS75928

'W' = CLEARANCE ALLOWED FOR ALL VARIANCES IN MANUFACTURING & ASSEMBLY



DASH	C	AG	DASH	C	AG
500	9.94	7.88	625	11.19	9.13
525	10.19	8.13	750	12.44	10.38
575	10.69	8.63			

05-17-2000

NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	MAT'L.	TOLERANCES UNLESS SPECIFIED	TITLE	PREV			
6	UPDATED LOGO	SG 02/18/20	PVR							DRAWN DD 08-27-1993			
5	UPDATED DRAWING	TJW 04/20/2007		DEC.	INCHES					CHK ML 08-30-1993			
4	CHANGED TO LEESON CONDUIT BOX PER CN39440-2	TJW		.X	±.1					APPD JAY 08-31-1993			
3	REDRAWN IN AUTOCAD	TAT 07-06-2004	ML	.XX	±.03				TITLE OUTLINE	SCALE 11=32			
2	REVISED NAMEPLATE LOCATION CN 34681	NJS 02-19-2002	DRS	.XXX	±.005					REF			
1	NEW DRAWING 4069675	NJS 02-19-2002	ML	.XXXX	±.0005					FMF			
			RFP							PREV			
			DIST	WP									
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								A		SS75928			6





NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN RM 11/20/1990				
					DEC.	INCHES						
5	CHG TO REGAL LOGO	SL 09/10/2015	AB					CHK ML 11/21/1990				
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1			APPD SAS 04/24/2003				
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02			SCALE 1=1				
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		TITLE CONNECTION DIAGRAM 3Ø - DUAL VOLTAGE MOTOR	REF				
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		MAT'L.	FMF				
					±7'30"			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 ee7308	SIZE A	DRAWING NO. EE7308	PAGE OF 5	REV. 5
							DIST WP					

**CERTIFICATION DATA SHEET**

Model#: 56H17F2017 A WINDING#: TE48412 R4 3  
 CONN. DIAGRAM: A-EE7308 ASSEMBLY: F3  
 OUTLINE: A-SS75928-625

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN		
3/4	.56	1800	1725	56C	TEFC	L	INV		
PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	2.8/1.4	INVERTER ONLY	CONTINUOUS	H1	1.0	40	3300
FULL LOAD EFF: 75.5		3/4 LOAD EFF: 73	1/2 LOAD EFF: 67	GTD. EFF		ELEC. TYPE		NO LOAD AMPS	
FULL LOAD PF: 70.5		3/4 LOAD PF: 62	1/2 LOAD PF: 49.5	72		SQ CAGE INV DUTY		1.9 / 1	
F.L. TORQUE		LOCKED ROTOR AMPS		L.R. TORQUE		B.D. TORQUE		F.L. RISE°C	
2.28 LB-FT		18 / 9		8.5 LB-FT 373		9.5 LB-FT 417		65	
SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT			
60 dBA	70 dBA	0.055 LB-FT^2	0 LB-FT^2	0 SEC.	0	25 LBS.			

**EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)**

R1	R2	X1	X2	XM
13.986	12.5874	15.6114	8.316	292.572
RM	ZREF	XR	TD	TD0
10546.2	378	1.37	0.0034	0.063

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLACK (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE	POLYREX EM	STANDARD 56	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
BALL	BALL						
6203	6203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	NONE	FALSE	NONE VOLTS
NONE	NOT	NONE	NONE			

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 20:1
INV. HP SPEED RANGE: 2.0 X BASE SPEED
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE

\*  
N  
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S  
\*

NONE	P/N	NONE	
NONE	NONE		
NONE FT-LB		NONE V	NONE Hz

DATE: 06/28/2017 12:57:23 AM  
FORM 3531 REV.3 02/07/99  
\*\* Subject to change without notice.



**MARATHON ELECTRIC CORPORATION**  
TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer

Curve at

460 Volts  
60 HZ  
0.75 HP

HP 0.75

PHASE 3

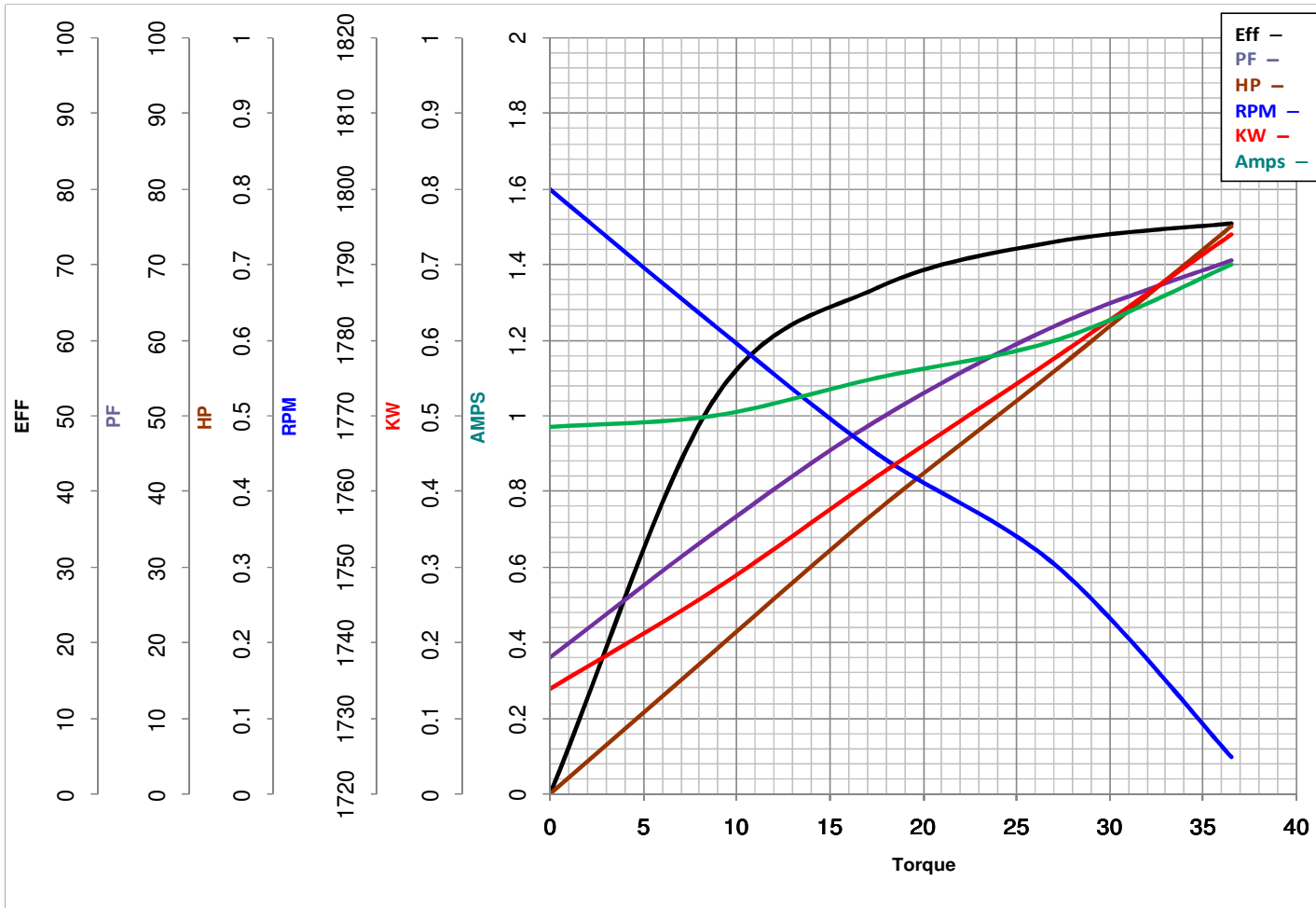
Model No 56H17F2017

VOLTS 230/460

Catalog No Y362

HZ 60

RPM 1725



Torque in Oz.Ft

FL TORQUE 36.48 Oz.Ft  
BD TORQUE 152.0 Oz.Ft  
LR TORQUE 136 Oz.Ft

FL AMPS 2.8/1.4  
PU TORQUE 134.4 Oz.Ft  
LR AMPS 9

WINDING TE48412-3

Date 1/24/2019



## EC Declaration of Conformity

The undersigned representing  
the manufacturer:

Regal Beloit America  
100 East Randolph St.  
Wausau, WI 54401

and the authorized representative  
established within the Community:

Marathon Electric UK  
6F Thistleton Road Ind. Estate  
Market Overton  
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 056H17F2017

(Model No. may contain prefix and/or suffix characters)

Catalog No : Y362

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon  
Vice President, Technology

Authorized Representative in the Community:



Julian Clark  
Marketing Engineer

Created on 09/01/2022

**CE 22**