PRODUCT INFORMATION PACKET



Model No: 056H17T5302 Catalog No: Y535

Black Max® Inverter Duty Speed Ratio Motor, 1 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 56C Frame, TENV



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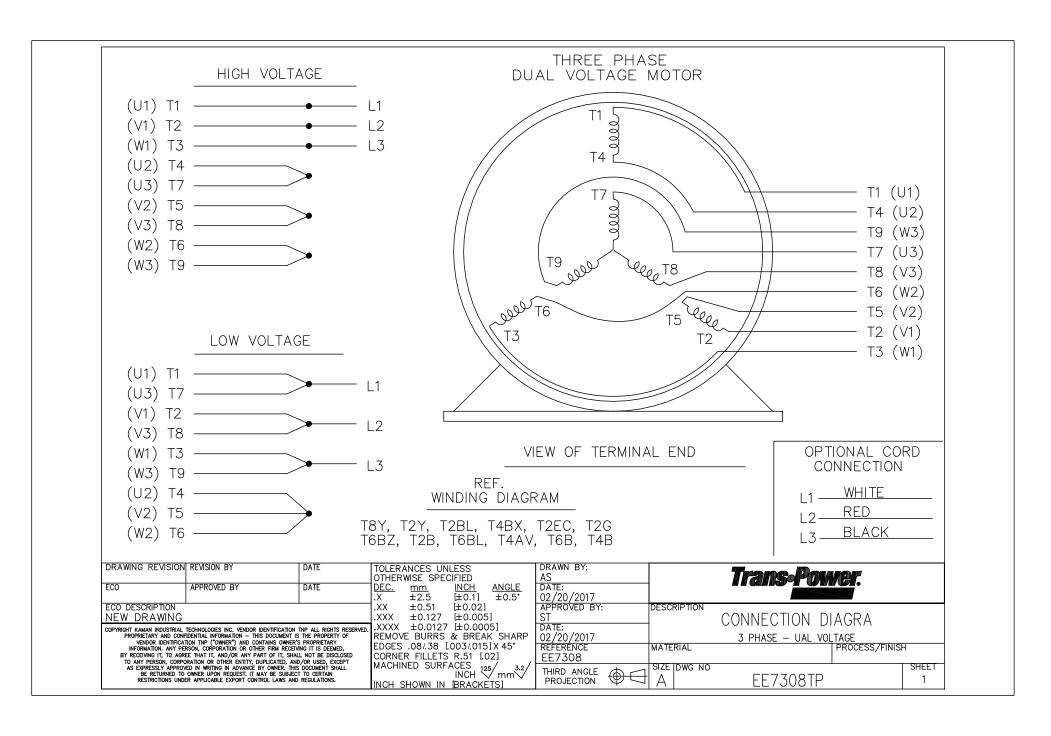
Nameplate Specifications

Phase	3	Output HP	1 Hp
Output KW	0.75 kW	Voltage	230/460 V
Speed	1725 rpm	Service Factor	1.0
Frame	56C	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection Thermostat		Efficiency	84 %
Ambient Temperature	ture 40 °C Frequency		60 Hz
Current	3.0/1.5 A Power Factor		75
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	Р
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Υ
CE	Υ	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only	
Poles	4	Rotation	Reversible	
Resistance Main	13.5 Ohms	Mounting	Bolt-on Base	
Motor Orientation	Horizontal	Drive End Bearing	Ball	
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel	
Shaft Type	NEMA 56	Overall Length	14.98 in	
Frame Length	8.56 in	Shaft Diameter	0.625 in	
Shaft Extension	2.06 in	Assembly/Box Mounting	F1 ONLY	
Inverter Load	CONSTANT 1000:1			
Outline Drawing	B-108747-856	Connection Drawing	A-EE7308T	

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CERTIFICATION DATA SHEET

 Model#:
 56H17T5302 E
 WINDING#:
 ZT472 TR 3

 CONN. DIAGRAM:
 A-EE7308T
 ASSEMBLY:
 F1 ONLY

OUTLINE: A-104043-856

TYPICAL MOTOR PERFORMANCE DATA

	HP	HP KW SYNC. RPM F.L. RPM		F.L. RPM	FRAME ENCLOSURE		SURE	KVA CODE		DESIGN		
	1 .75		i	1800		1725	56C	TEN	V	Р		INV
_			1									
	PH	Hz	vo	LTS	FL AMPS	START TYPE	DUTY	INSL	S.	F	AMB°C	ELEVATION
Γ	3	60	60 230/460 3/1.5 INVERTER		INVERTER	CONTINUOU	F3	F3 1.0		40	3300	
L						ONLY	s					

FULL LOAD EFF: 84	3/4 LOAD EFF: 82.5	1/2 LOAD EFF: 78.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 75	3/4 LOAD PF: 65.5	1/2 LOAD PF: 51	81.5	SQ CAGE INV DUTY	2 / 1

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
3 LB-FT	30 / 15	10.8 LB-FT 360	15 LB-FT 500	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.11 LB-FT^2	0 LB-FT^2	0 SEC.	0	39 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	ХМ	
8.378	5.6232	10.7068	9.9116	278.036	
RM	ZREF	XR	TD	TD0	
11132.8	284	1.7	0.0071	0.136	

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE OR ENCODER	BOLT-ON	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLACK (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	DE OPE					MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	STANDARD 56	NONE	NONE	1144	ROLLED STEEL
6203	6203					STRESSPROOF	
0200	0200					(C-223)	

	THERMO-PF	ROTECTORS	THERMISTORS	CONTROL	SPACE /n HEATERS	
THERMOSTATS PROTECTORS WDG RTDs BRG RTDs						
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 1000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED

ENCODER: PROVISIONS ONLY

NORTHSTAR ST56 NONE NONE PPR

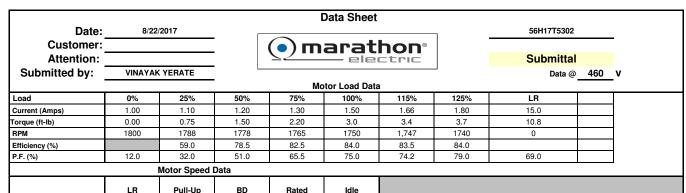
BRAKE: PROVISIONS ONLY NONE

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STEARNS P/N NONE 56,000 NONE 10 FT-LB NONE V NONE Hz

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	LK	Pull-Up	BD	Rated	Idle	•			
Speed (RPM)	0	700	1300	1750	1800	0		Information Bloc	k
Current (Amps)	15.0	12.5	8.2	1.50	1.00)	HP	1.0	
Torque (ft-lb)	10.8	9.5	15.0	3.0	0.00)	Sync. RPM	1800	
							Frame	56	
	— Efficiency (%)	—— P.F. (%		Current (Amps)			Enclosure	TENV	
100.0					2.0		Construction	TTR	
100.0					2.0		Voltage	230/460	V
					1.8		Frequency	60	Hz
90.0				_/			Design	Α	
					1.6		LR Code letter	Р	
E							Service Factor	1.15	
F 80.0					1.4		Temp Rise @ FL	65	°C
F						Α	Duty	CONT	
	/				1.2	M	Ambient	40	°C
70.0						P S	Elevation	1,000	feet
					1.0	3	Rotor/Shaft wk²	0.11	Lb-Ft ²
							Ref Wdg	ZT472 TR	
60.0					0.8		Sound Pressure @ 1M	62	dBA
50.0					0.6		VFD Rating	CONSTANT	1000:1
30.0							Outline Dwg		A-104043-856
					0.4		Conn. Diag		A-EE7308T
40.0							Additional Specifications:		
					0.2		0		
30.0					0.0		0 E	EQUIV CKT (OHMS / PI	HASE)
								`	,





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: 056H17T5302

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

Catalog No : Y535

Rework No : N/A

Directives:

Low Voltage Directive 2014/35/EU

Harmonized Standards Used:

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

Michael A Logsdon

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

Authorized Representative:

<u>Authorized Representative in the Community:</u>

J. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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