PRODUCT INFORMATION PACKET

Model No: 184THTCD8028
Catalog No: Y564A
Blue Max® Inverter Duty Encoder Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1800 & 1800 RPM, 184TC Frame, TENV

marathon®

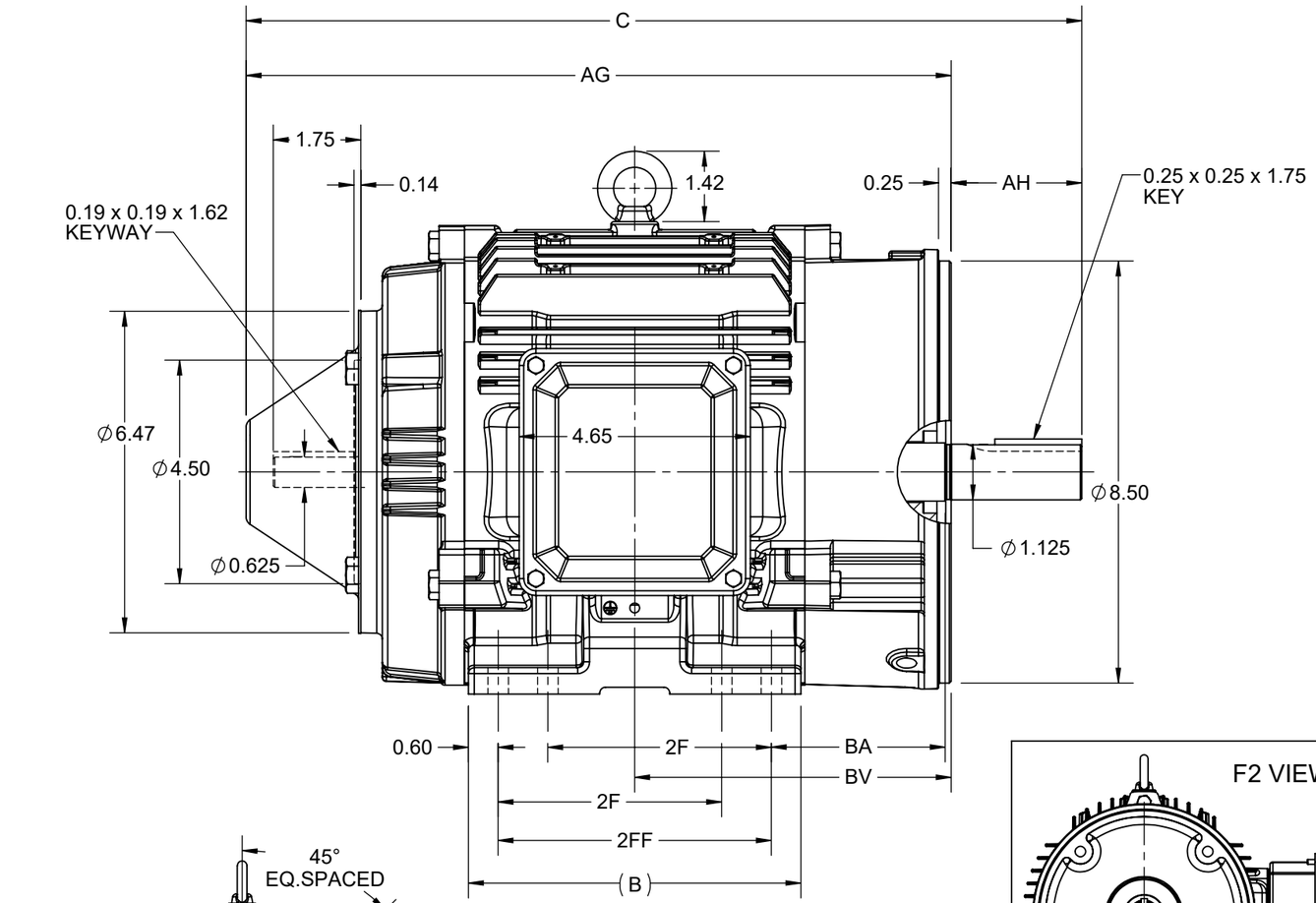
Nameplate Specifications

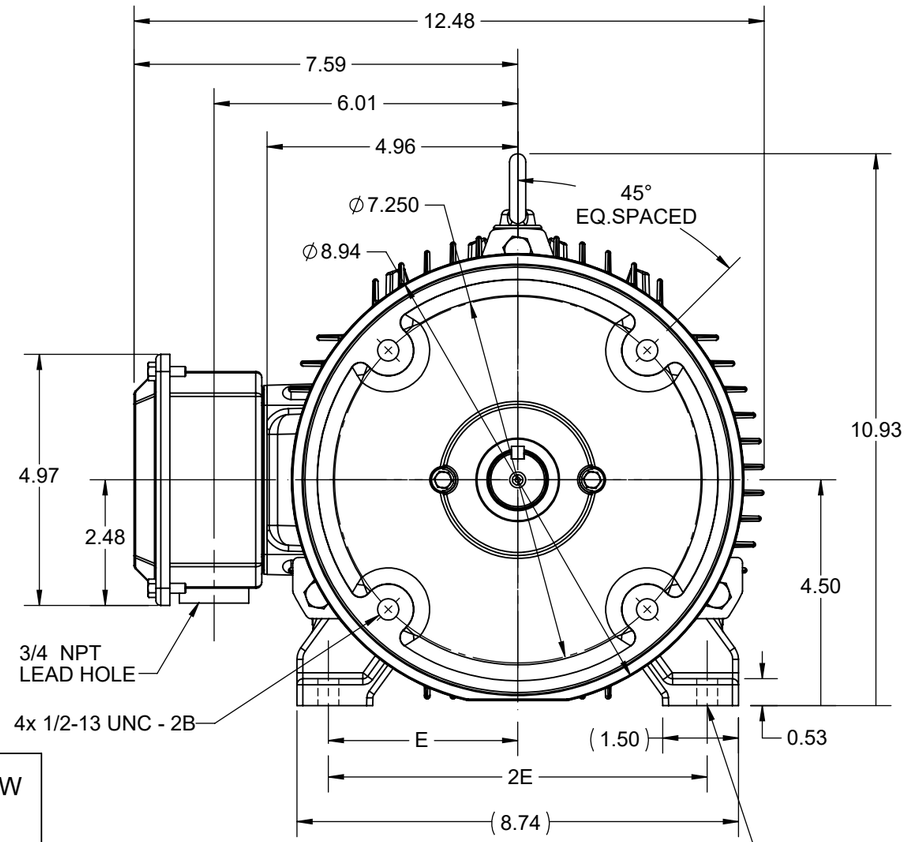
Phase	3	Output HP	5 Hp
Output KW	3.7 kW	Voltage	230/460 V
Speed	1760 r/min	Service Factor	1.00
Frame	184TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	Thermostat	Efficiency	89.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	13.0/6.5 A	Power Factor	77
Duty	Continuous	Insulation Class	SPECIAL
Design Code	INV	KVA Code	L
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6306
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

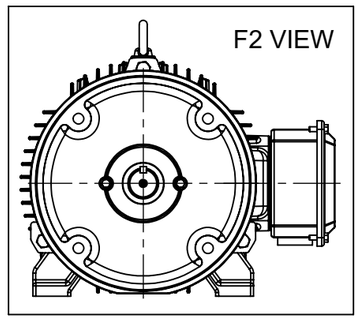
Technical Specifications

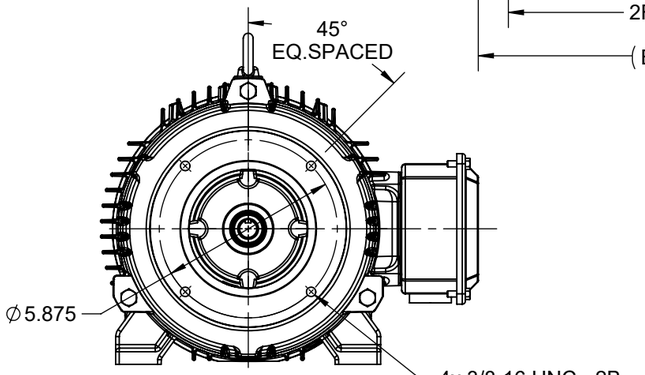
Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	2.012 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Shaft Diameter	1.125 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2000:1
Outline Drawing	SS600239-200	Connection Drawing	EE7308T

DASH NO.	B	C	E	2E	2F	2FF	AG	AH	BA	BV	MOUNTING	FRAME
100	5.67	15.81	3.75	7.50	---	4.50	13.19	2.62	3.50	5.87	F1 OR F2	182TC
200	6.69	16.81			4.50	5.50	14.19			6.37		182/184TC









ODE VIEW
COVER REMOVED

DRAWING REVISION	REVISION BY	REV DATE/© DATE
A	VS	28-01-2021
ECO	APPROVED BY	DATE
CR-0000832	MSH	28-01-2021

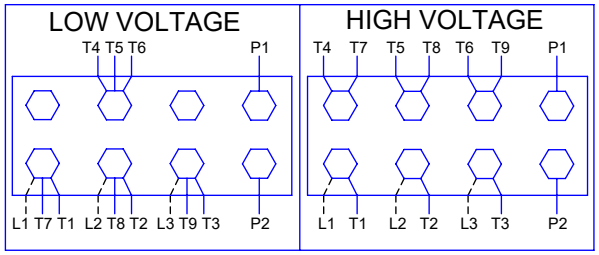
ECO DESCRIPTION
NEW DRAWING RELEASE

PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY	Regal Beloit America, Inc.	
VS		
DATE	DESCRIPTION	
28-01-2021	OUTLINE	
APPROVED BY	182/184TC NEMA-ODE 4.5 AK BRKT-TENV	
MSH		
DATE		
28-01-2021		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER SS600239	SHEET 1 OF 1

HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9

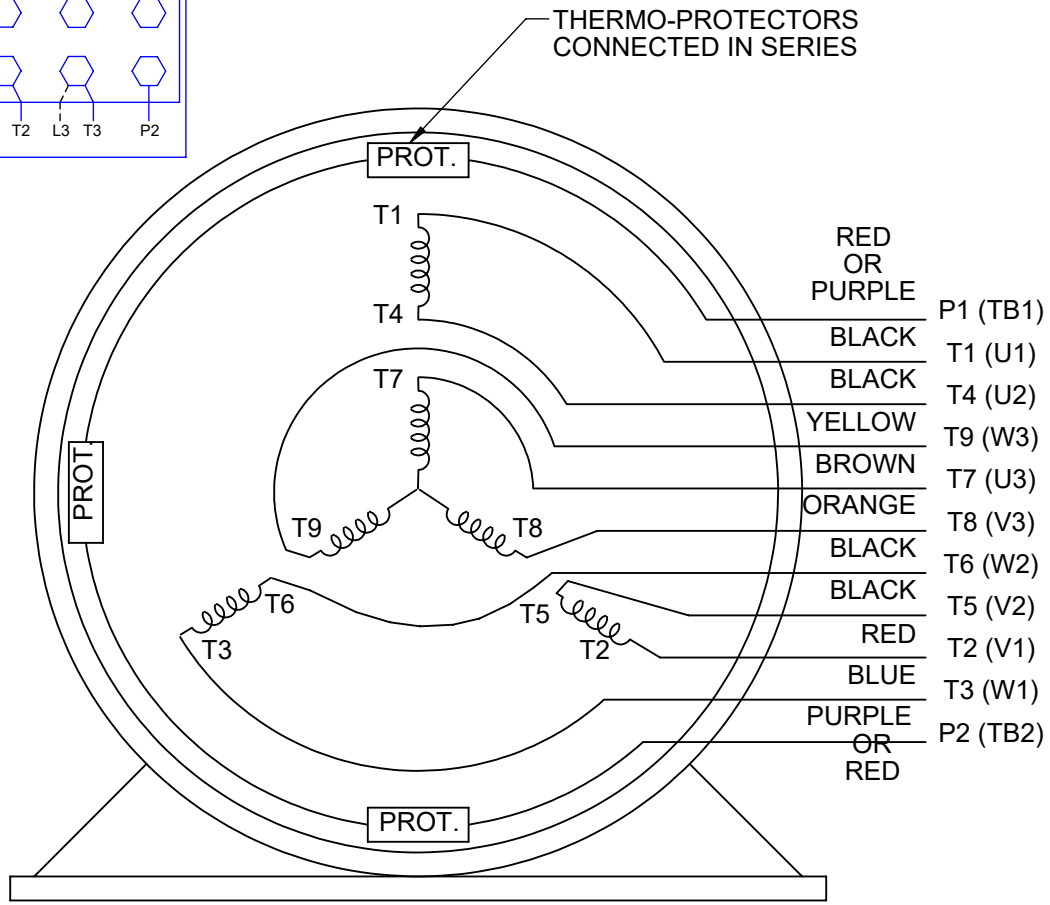


NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6

THREE PHASE DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

DRAWING REVISION: T	REVISION BY: ZR	DATE: 01-14-2019		DRAWN BY: SMC	Regal Beloit America, Inc.
ECO: ECO-0159915	APPROVED BY: DR	DATE: 01-15-2019		DATE: 05-13-1992	
ECO DESCRIPTION: ADDED TERMINAL CONNECTION DIAGRAM				APPROVED BY: TB	DESCRIPTION: CONN DIAGRAM-INTERNAL
				DATE: 05-13-1992	3 PHASE - DUAL VOLTAGE MOTOR
				REFERENCE: EE7308/EE7300	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A — DRAWING NUMBER: EE7308T — SHEET: 1 OF 1

Data Sheet

Date: 7/27/2022
Customer:
Attention:
Submitted by:

marathon® Motors

184THTCD8028

Submittal

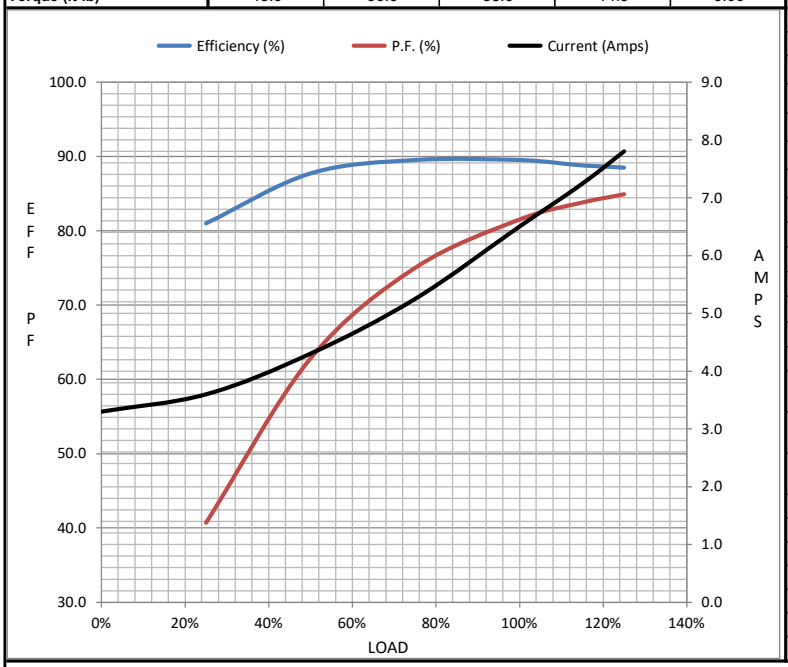
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.3	3.6	4.3	5.3	6.5	7.2	7.8	58.0	
Torque (ft-lb)	0.00	3.7	7.4	11.1	14.9	17.2	18.8	43.0	
RPM	1800	1790	1780	1770	1760	1,756	1750	0	
Efficiency (%)		81.0	87.7	89.5	89.5	88.8	88.5		
P.F. (%)	7.9	40.7	62.8	75.0	81.5	83.8	84.9	55.1	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	880	1300	1760	1800
Current (Amps)	58.0	52.2	41.0	6.5	3.3
Torque (ft-lb)	43.0	36.6	55.0	14.9	0.00



Information Block

HP	5.0	
Sync. RPM	1800	
Frame	184	
Enclosure	TENV	
Construction	TTC	
Voltage	230/460	V
Frequency	60	Hz
Design	INV	
LR Code letter	L	
Service Factor	1.0	
Temp Rise @ FL	105	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	0.40	Lb-Ft²
Ref Wdg	HA31124031 NONE	
Sound Pressure @ 1M	62	dBA
VFD Rating	CONSTANT 2000:1	
Outline Dwg		
Conn. Diag	EE7308T	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
1.5310	1.0770	3.2150	3.6400	80.4010

Speed -Torque Curve