marathon®

Severe Duty Motors

Model No: 445TSHFCD9042
Catalog No: W117-P

Severe Duty Motor, 200 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 445TSCV Frame, TEFC

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Product Information Packet: Model No: 445TSHFCD9042, Catalog No: W117-P Severe Duty Motor, 200 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 445TSCV Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**200 Hp**
Output KW	**149.0 kW**	Voltage	**460 V**
Speed	**1790 r/min**	Synchronous RPM	**1800 r/min**
Service Factor	**1.15**	Frame	**445TSCV**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**96.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**219.0 A**
Power Factor	**88.5**	Duty	**Continuous**
Insulation Class	**H**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6319**
Opp Drive End Bearing Size	**6317**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**56**		

Technical Specifications

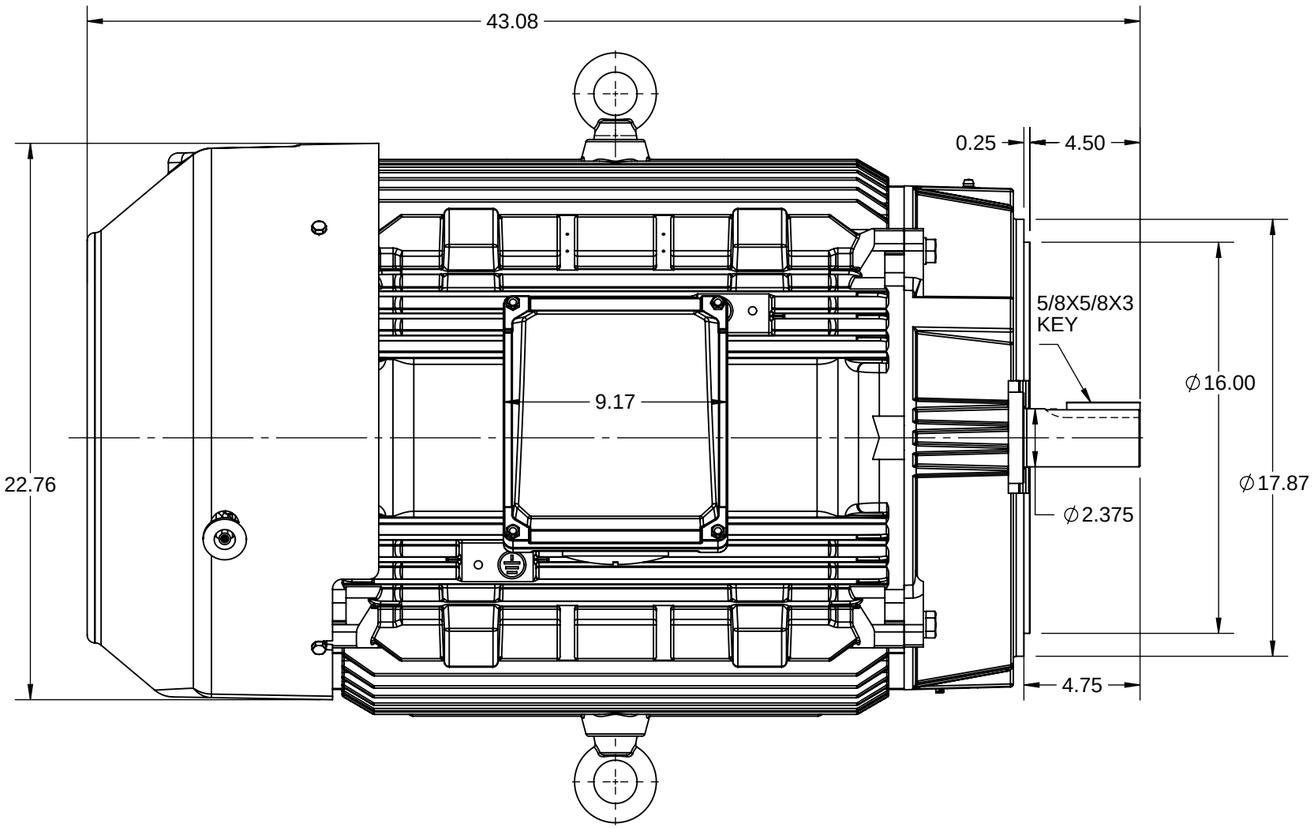
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.0184 O**	Mounting	**Round**
Motor Orientation	**Horizontal Or Shaft Down**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**TS**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Constant 2:1/Variable 10:1**		

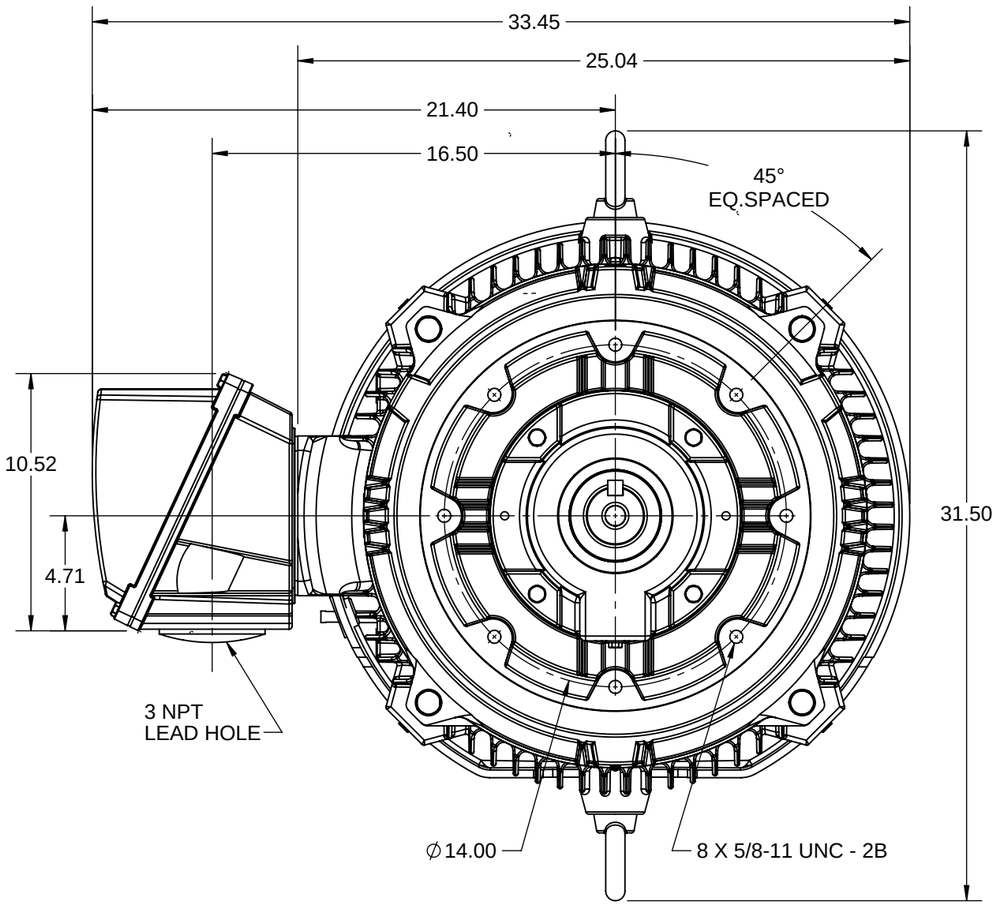
Drawings

Connection Drawing	**EE7300U**	Outline Drawing	**SS621015**

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OUTLINE



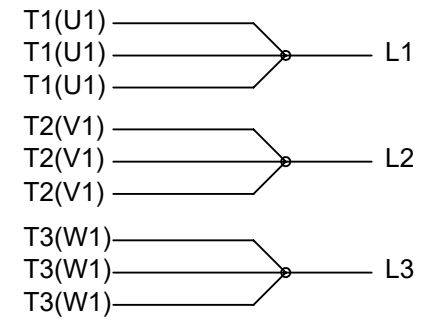


DRAWING REVISION: C	REVISION BY: SB	REV DATE/© DATE: 05/19/2026	DRAWN BY: BISWA	marathon™
REQUEST NUMBER: CR-0026322	APPROVED BY: RMS	DATE: 05/19/2026	DATE: 14/04/2020	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED			APPROVED BY: SBD	DESCRIPTION: OUTLINE
			DATE: 14/04/2020	444/445TSC FR-NEMA-SD & IEEE841-VERTICAL APPLICATION
			REFERENCE	MATERIAL / PROCESS/FINISH
			THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS621015 / SHEET: 1 OF 1

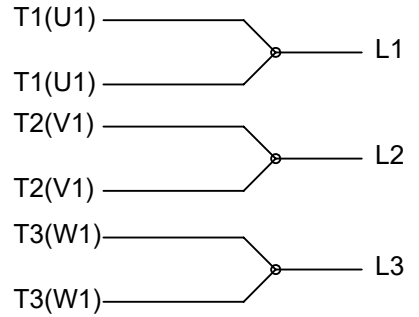
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IF MOTOR HAS 9 LEADS

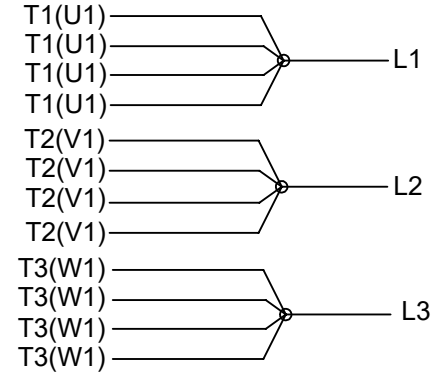


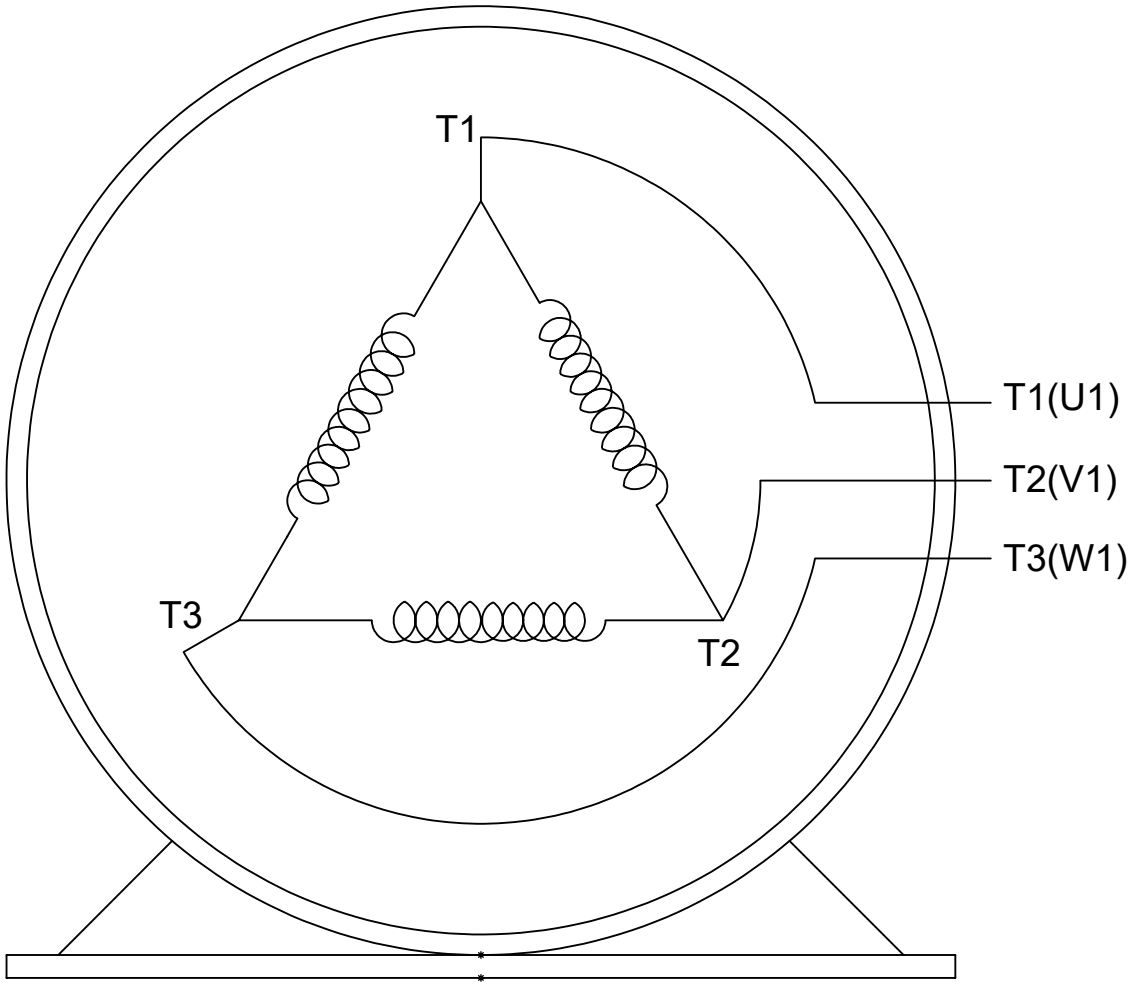
IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS





VIEW OF TERMINAL END

DRAWING REVISION	REVISION BY	REV DATE/© DATE
M	SB	08/01/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023654	SBD	08/01/2025

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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DATE	09-27-1996
APPROVED BY	GK
DATE	09-30-1996
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø SINGLE VOLTAGE

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7300U	1 OF 1

Data Sheet

Date: 8/1/2022
Customer:
Attention:
Submitted by:

marathon® electric

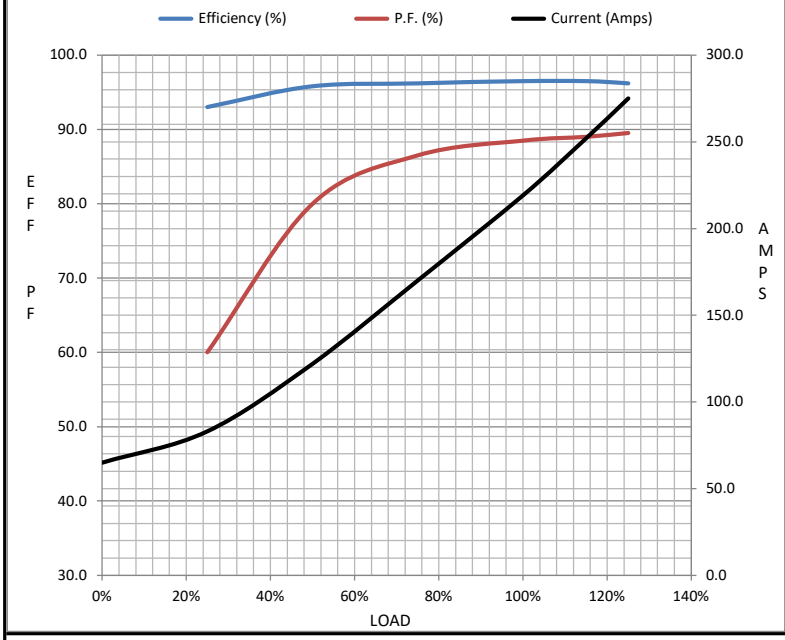
445TSHFCD9042
315021.002 FAN
Submittal
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	65.0	83.0	122	170	219	252	275	1,450	
Torque (ft-lb)	0.00	146	293	440	587	676	735	1,256	
RPM	1800	1798	1795	1792	1790	1,788	1788	0	
Efficiency (%)		93.0	95.8	96.2	96.5	96.5	96.2		
P.F. (%)	4.5	60.0	80.0	86.5	88.5	89.0	89.5	38.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1750	1790	1800
Current (Amps)	1,450	1,160	850	219	65.0
Torque (ft-lb)	1,256	1,050	1,775	587	0.00



Information Block

HP	200.0	
Sync. RPM	1800	
Frame	445	
Enclosure	TEFC	
Construction	TFC	
Voltage	460	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	55	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	81.2	Lb-Ft²
Ref Wdg	HA32804009 NONE	
Sound Pressure @ 1M	80	dBA
VFD Rating	CONSTANT 2:1/VARIABLE 10:1	
Outline Dwg	SS621015	
Conn. Diag	EE7300	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0120	0.0070	0.0810	0.1850	3.8340

Speed -Torque Curve

