marathon®

General Purpose Motors

Model No: 100LTFC6586
Catalog No: R317

General Purpose Motor, 1.50 & 1 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 RPM, 100L Frame, TEFC

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Product Information Packet: Model No: 100LTFC6586, Catalog No: R317 General Purpose Motor, 1.50 & 1 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 RPM, 100L Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**1.50 & 1 Hp**
Output KW	**1.1 & 0.75 kW**	Voltage	**230/460 & 200/400 V**
Speed	**1185 & 988 r/min**	Synchronous RPM	**1200 & 1000 r/min**
Service Factor	**1.15 & 1.0**	Frame	**100L**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**87.5 & 86.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**4.6/2.3 & 4.2/2.1 A**
Power Factor	**68**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**K**	Drive End Bearing Size	**6206**
Opp Drive End Bearing Size	**6205**	UL	**Recognized**
CSA	**N**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**

Technical Specifications

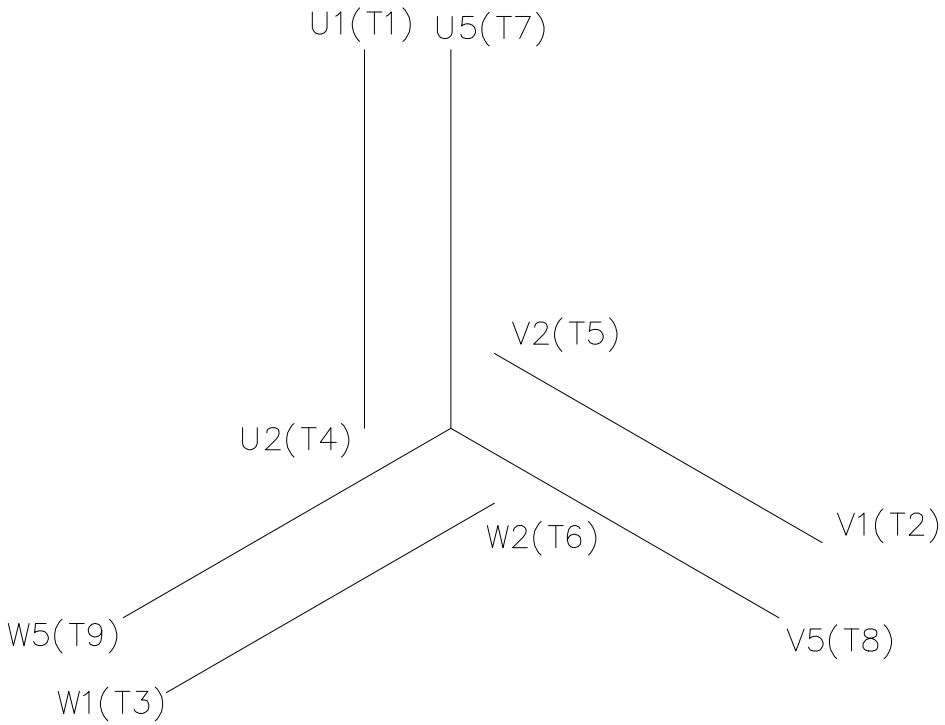
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**4.65 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**IEC**	Overall Length	**16.33 in**
Shaft Diameter	**1 1/9 in**	Shaft Extension	**2.36 in**
Assembly/Box Mounting	**F3**	Inverter Load	**Constant 2:1**

Drawings

Connection Drawing	**00546501**	Outline Drawing	**SS622236-DF100L-6R**

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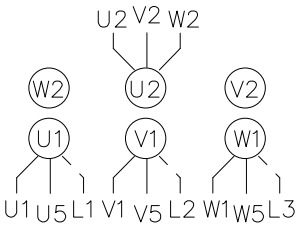
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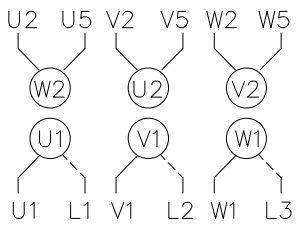
REF. DECAL (IEC) 080644
REF. DECAL (NEMA) 080446

IEC MARKINGS

LOW VOLTAGE



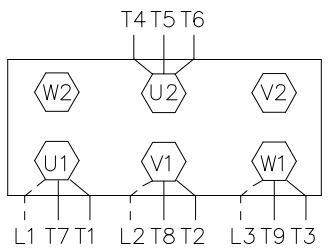
HIGH VOLTAGE



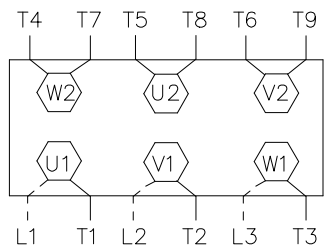
LINE VOLTAGE	L1	L2	L3	JOIN		
TERMINAL	U1	V1	W1	W2	U2	V2
LOW	U1,U5	V1,V5	W1,W5	---	U2,V2,W2	---
HIGH	U1	V1	W1	U2,U5	V2,V5	W2,W5

NEMA MARKINGS

LOW VOLTAGE



HIGH VOLTAGE



LINE VOLTAGE	L1	L2	L3	JOIN		
TERMINAL	U1	V1	W1	W2	U2	V2
LOW	T1, T7	T2, T8	T3, T9	---	T4,T5,T6	---
HIGH	T1	T2	T3	T4, T7	T5, T8	T6, T9

DRAWING REVISION	REVISION BY	REV DATE/ © DATE
D	SB	08/07/2026
REQUEST NUMBER	APPROVED BY	DATE
CR-0027273	RMS	08/07/2026

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THIRD ANGLE PROJECTION	

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DESCRIPTION
EXTERNAL WIRING DIAGRAM
3 PHASE - DUAL VOLTAGE - W/TERM BLOCK

MATERIAL	PROCESS/FINISH
IEC/NEMA MARKINGS	01

SIZE	DRAWING NUMBER	SHEET
A	3 of 3 005465-01	1 OF 1