marathon®

General Purpose Motors

Model No: LM16774
Catalog No: LM16774

General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 380-415 V, 1800 RPM, 286TC Frame, TEFC

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Product Information Packet: Model No: LM16774, Catalog No: LM16774 General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 380-415 V, 1800 RPM, 286TC Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**30 & 25 Hp**
Output KW	**22.4 & 18.7 kW**	Voltage	**230/460 & 380-415 V**
Speed	**1777 & 1475 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.25 & 1.15**	Frame	**286TC**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**93.6 & 92.4 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**75/37.5 & 37.5-36 A**
Power Factor	**80**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6312**
Opp Drive End Bearing Size	**6209**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

Technical Specifications

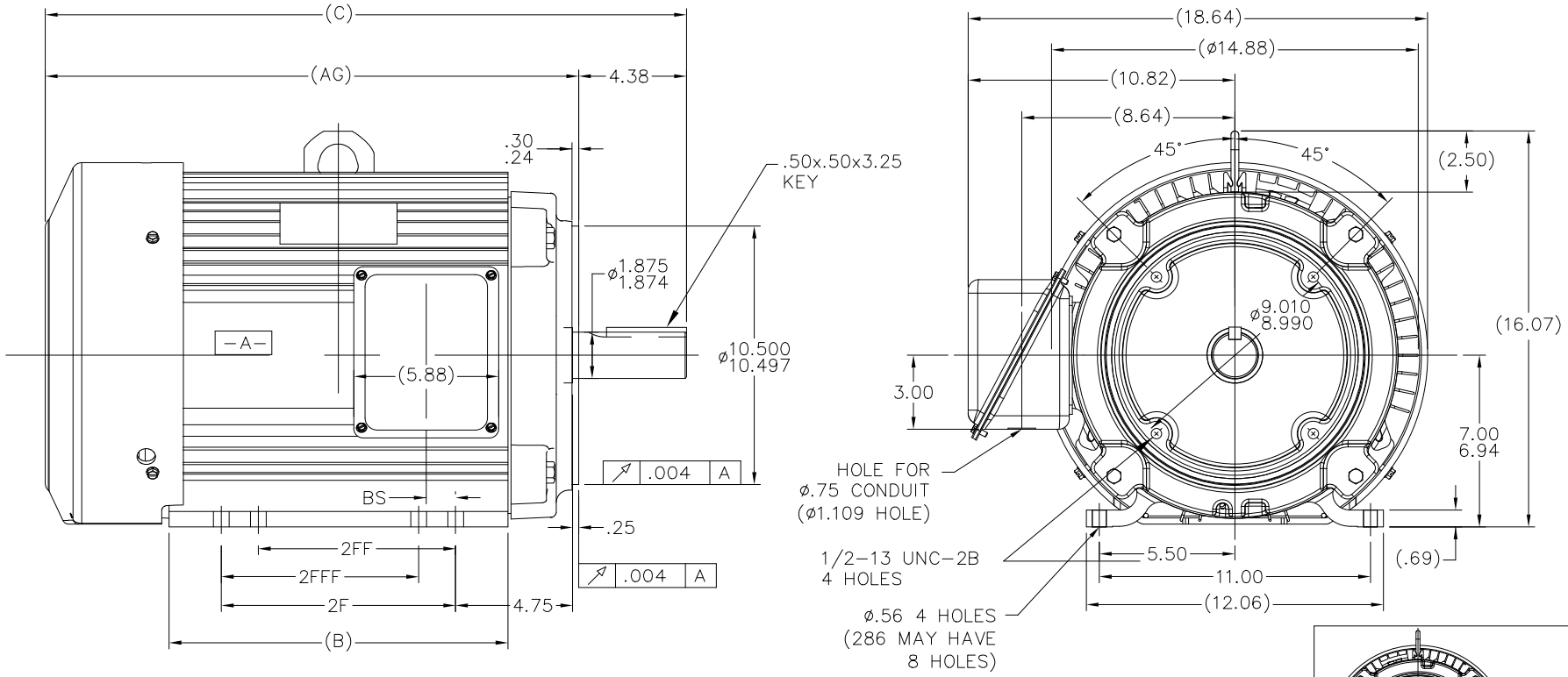
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Wye Start Delta Run**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.245 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Aluminum**
Shaft Type	**T**	Overall Length	**28.01 in**
Frame Length	**15.25 in**	Shaft Diameter	**1 7/8 in**
Shaft Extension	**4.62 in**	Assembly/Box Mounting	**F1/F2 Capable**

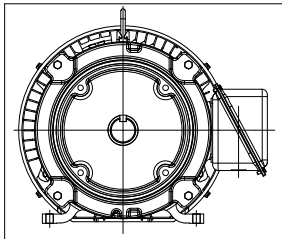
Drawings

Connection Drawing	**EE7358**	Outline Drawing	**XF5F1SC1-1525**

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F2 VIEW

NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	C	B	AG	2F	2FF	2FFF	BS
1375	284TC	26.02	13.88	21.64	9.50			1.69
1525	286TC	27.52	15.38	23.14	11.00	9.50	9.50	1.69

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TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	± 0.1	± 3)	± 0.5 °
.XX	± 0.01	[± 0.3]	
.XXX	± 0.005	[± 0.13]	
.XXXX	± 0.0005	[± 0.013]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45 °
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 125 INCH / 3.2 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	TJB
DATE	06-11-2002
APPROVED BY	TB
DATE	06-14-2002
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION: OUTLINE
280TC TEFC UEI

MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	XF5F1SC1	1 OF 1