



Customer information packet

ECC101M4H20FF4

20HP, 1800RPM, 3PH, 60HZ, 215T, 3780B, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	WEEE UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	21.600 A @ 460.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.9 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	21.6 a
Insulation Class	F
Inverter Code	Inverter Duty
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing

Part detail

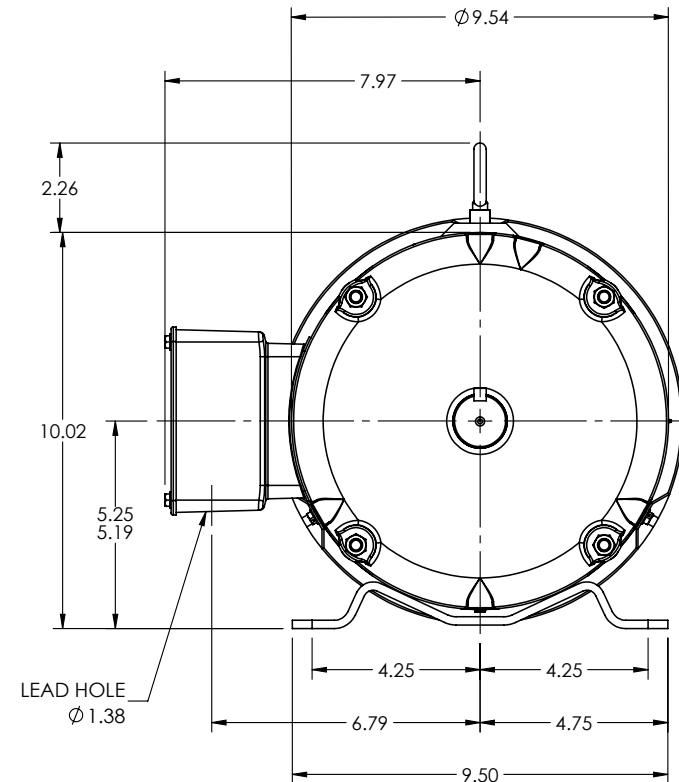
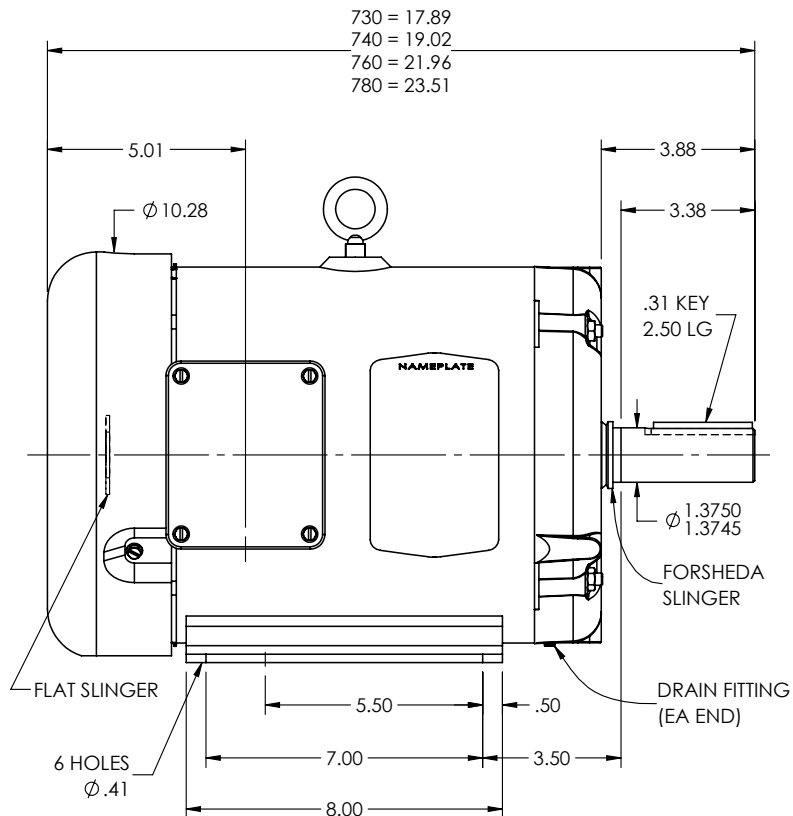
Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGA0019
Layout	37LY-000-406
Eff. date	07-17-2025
CD Diagram	CD0006B03
Poles	04
Leads	3#10
Proprietary	False
Created date	08-08-2022

Max Speed	3000 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3780B
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.51 IN
Power Factor	91
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.50
Shaft Diameter	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1800 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4246N15M03												
CAT #	ECC101M4H20FF4						WGT	235	LBS			
SPEC	37-0000-0481						ENCL	TEFC				
SER #					FRAME	215T				IP	54	
HP	20			RATING			40C AMB-CONT					
NOM.EFF.	95.9	PF	91	HZ	60	PH		3	CLASS	F		
VOLTS	460				AMPS		22.032					
SER.F.	1.50	RPM		1800				MAX RPM		3000		
BEMF (V)	241				RS (OHMS)				0.33			
LD(MH)	10.6				LQ(MH)		35.541					
VPWM	CHP	60		TO		100						
CT	6	TO		60		VT	1	TO		100		
MATCHED INV	ACS380-04XX-[N/A] / 25A0-4											
DE	6307			ODE		6206			YR:			

37LY-000-406



REV. DESC: CHG'D TO HA3104A59, 37GS1002A01, 37GS1008A01

REV: A

VERSION: 01

REVISED: 09:06:06 06/05/2025

TDR: 000001256072

37LY-000-406

MODEL NO. 37LY-000-406

REF: -

BY: USEROLI

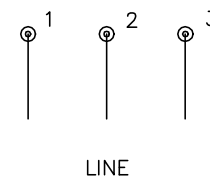
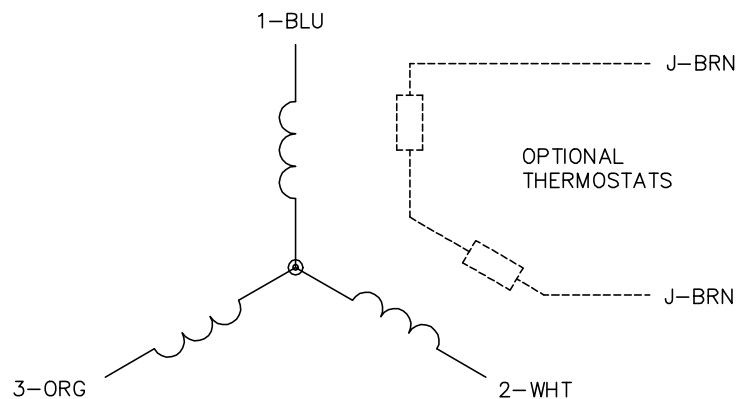
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HORZ 213-5T TEFC B ECS

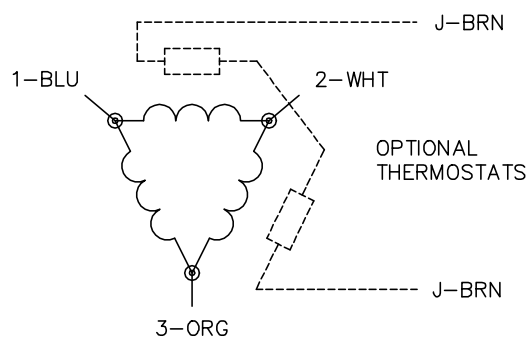
37LY-000-406

CD0006

TYPICAL WYE-CONNECTED MOTOR



TYPICAL DELTA-CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -



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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1

