ABB BALDOR RELIANCE

Customer information packet

ECS101M4H20FF4

20HP, 1800RPM, 3PH, 60HZ, 215T, TEFC, N
Class - None
Division - Not Applicable

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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
Phase	3
Agency Approvals	UL
	WEEE
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	30
Design Code	B
Drip Cover	No Drip Cover
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
Inverter Code	Inverter Duty
IP Rating	NONE
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3780B
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.51 IN

Part Detail

Revision	T
Type	AC
Mech. spec.	37Q435
Base	
Status	PRD/A
Elec. spec.	37WGL003
Layout	37LYQ435
Eff. date	10-07-2026
CD Diagram	CD0006
Poles	04
Leads	3#10 Y
Proprietary	False
Created date	07-15-2019

Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Shaft Diameter	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed Code	Single Speed
Starting Method	INVERTER SPECIAL
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

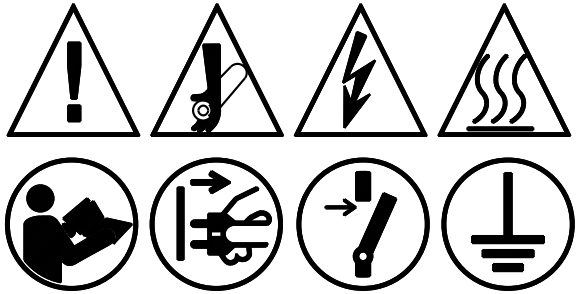
BALDOR·RELIANCE

EC-Titanium™

CAT. NO.	ECS101M4H20FF4						
SPEC.	37Q435L003G2				YR	***	
FRAME	215T		ENCL.	TEFC	IP54		
HP	20	RATING	40C AMB-CONT				
NOM. EFF.	95.9%	PF	90.5%	SF	1.5		
VOLTS	460		FLA	21.6			
RPM	1800		RPM MAX	3000			
HZ	60		PH.	3	CLASS	F	
BEMF (V)	221		Rs (Ω)	0.33			
Ld (mH)	10.0		Lq (mH)	35.9			
INV TYP	VPWM	CHP	60 TO 100 HZ				
	CT	6 TO 60 HZ	VT	6 TO 60 HZ			
MATCHED INV	ACS380-04XX-[N/A]/25A0-4						
BEARING	DE	6307	ODE	6206			
SERIAL#	***						

ELECTRIC MOTOR FOR INDUSTRIAL USE

FERRITE ASSISTED
SYNCHRONOUS RELUCTANCE MOTOR
FOR INVERTER USE ONLY



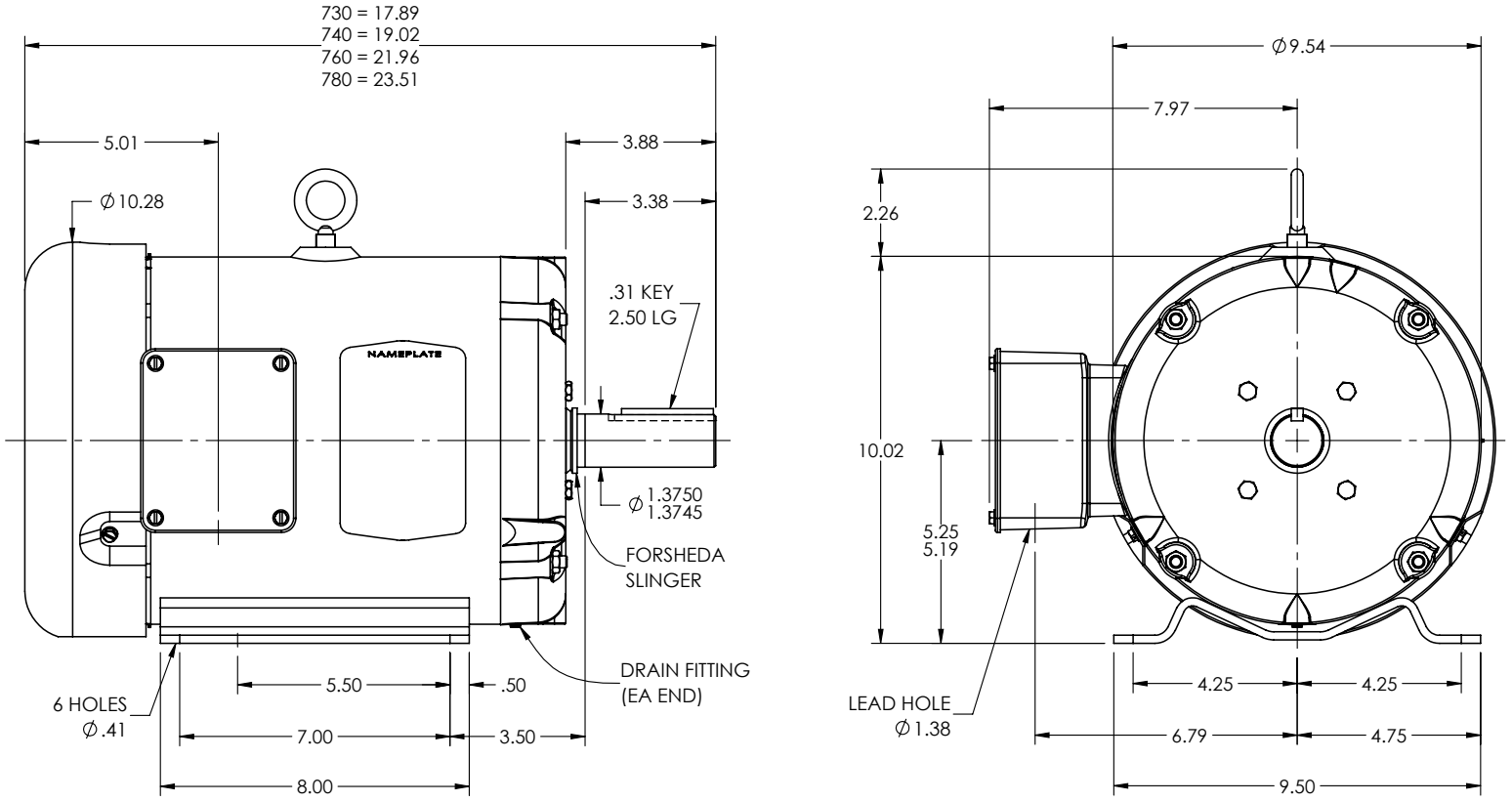
PERMANENT MAGNET MOTOR. WHEN SHAFT IS ROTATED, VOLTAGE WILL BE GENERATED AT THE MOTOR TERMINALS.
MOTEUR Á AIMANT PERMANENT. LORSQUE L'ARBRE TOURNE, UNE TENSION SERA GÉNÉRÉE AUX BORNES DU MOTEUR.

BALDOR-RELIANCE
SHAFT GROUNDING BRUSH INSTALLED

c UL us LISTED
E46145

ABB MOTORS AND MECHANICAL INC.
5711 R.S. BOREHAM JR. ST., FORT SMITH, AR. MFG IN U.S.A.

37LYQ435



REV. DESC: CHG'D TO 37GS1000, 37GS1008			
REV: J	VERSION: 09	REVISED: 09:27:18 06/05/2025	TDR: 000001256072
37LYQ435	MODEL NO. 37LYQ435		REF: -
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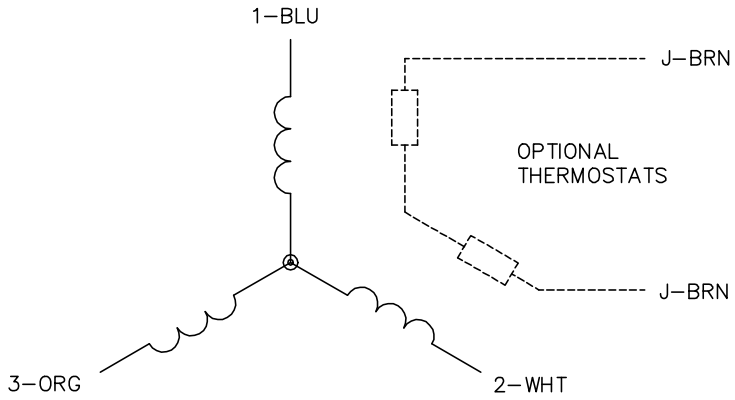
BALDOR - RELIANCE®

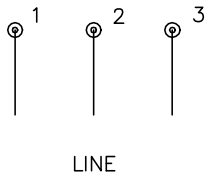
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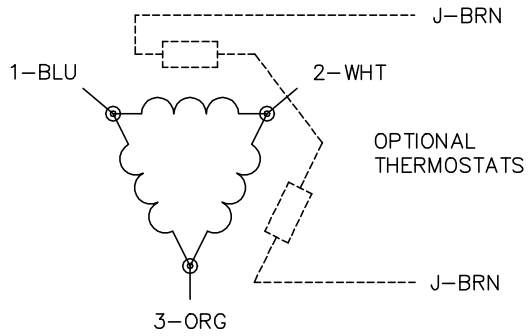
CD0006

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

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BALDOR - RELIANCE®

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

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