

ABB BALDOR RELIANCE III

Customer information packet

EM3313T-8

10HP, 1770RPM, 3PH, 60HZ, 215T, 3740M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM (OLD LOGO) CURUSEEV NEMA PREMIUM
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
Current @ Voltage	30.300 A @ 208.0 V 29.500 A @ 200.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	29.5 a

Part Detail

Revision	AD
Type	AC
Mech. spec.	37F614
Base	
Status	PRD/A
Elec. spec.	37WGT937
Layout	37LYF614
Eff. date	01-22-2026
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	03-15-2006

Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3740M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.45 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP3553L									
CAT.NO.	EM3313T-8								
SPEC	37F614T937								
HP	10								
VOLTS	200								
AMPS	29.5								
RPM	1770								
FRAME	215T		HZ	60			PH	3	
SF	1.15	CODE	J	DES	A	CLASS	F		
NEMA NOM. EFF	91.7	PF	80						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SER							
DE	6307		ODE	6206					
VPWM INVERTER READY		SFA 33.3							
CT30-60(2:1) VT3-60(20:1)									

Accessories

Part number	Description	Multiplier
37-1404	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 17618

Typical performance - not guaranteed values

Winding: 37WGT937-R001				Type: 3740M		Enclosure: OPSB					
Nameplate Data				200 V, 60 Hz: Single Voltage Motor							
Rated Output (HP)		10		Full Load Torque		29.7 LB-FT					
Volts		200		Start Configuration		direct on line					
Full Load Amps		29.5		Breakdown Torque		90.9 LB-FT					
R.P.M.		1770		Pull-up Torque		49.2 LB-FT					
Hz		60 Phase		3		Locked-rotor Torque		54.9 LB-FT			
NEMA Design Code		A		KVA Code		J		Starting Current		215 A	
Service Factor (S.F.)		1.15		No-load Current		14 A					
NEMA Nom. Eff.		91.7		Power Factor		80		Line-line Res. @ 25°C		0.19 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		34°C					
S.F. Amps				Temp. Rise @ S.F. Load		42°C					
				Locked-rotor Power Factor		38					
				Rotor inertia		0.984 lb-ft²					

Load Characteristics 200 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	40	62	74	80	83	84	82
Efficiency	87	91.6	92.2	91.8	90.8	89.6	91.2
Speed	1793	1786	1778	1770	1761	1751	1765
Line amperes	15.4	19.1	23.8	29.5	35.8	43	33.3

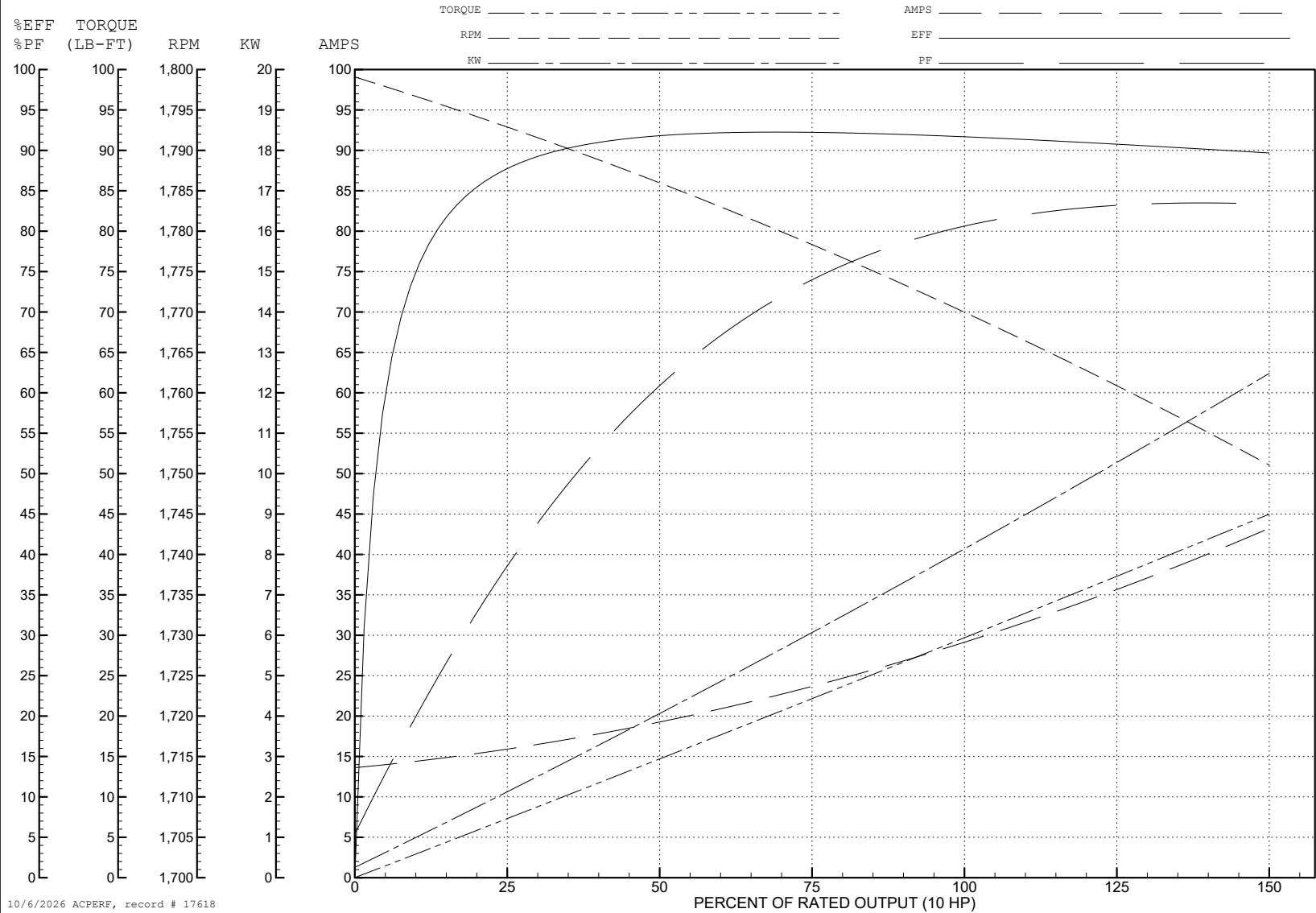
ABB Motors and Mechanical Inc.

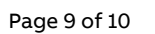
WINDING # 37WGT937

Typical performance - not guaranteed values.

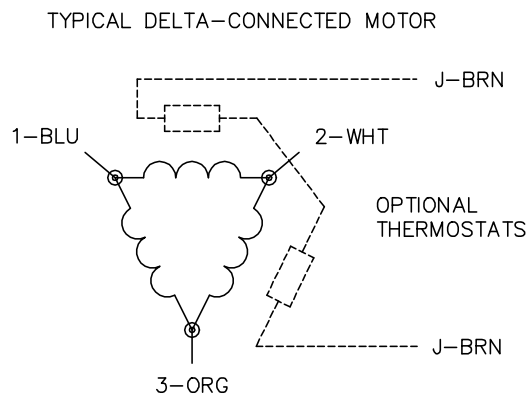
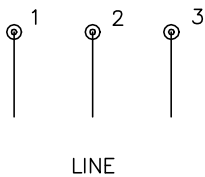
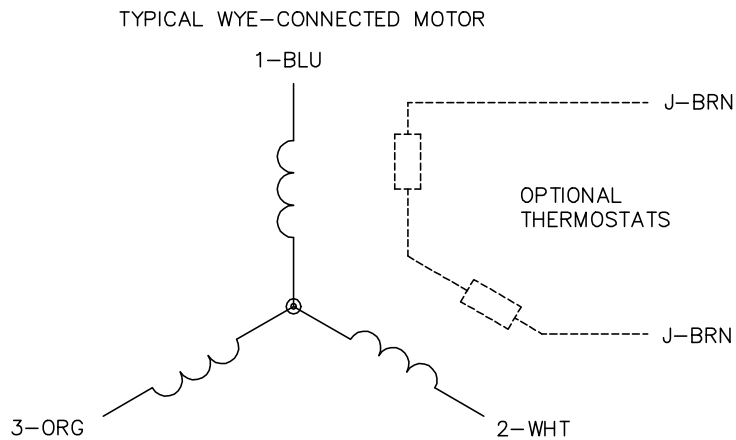
10 HP 3 PH 60 HZ 1770 RPM 200 V 3740M

TORQUES (LB-FT) : PO=90.9 PU=49.2 LR=54.9 LRA=215





CD0006



- 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: -



BALDOR - RELIANCE®

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

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