

ABB BALDOR RELIANCE III

Customer information packet

EM3714T-5

10HP, 1765RPM, 3PH, 60HZ, 215T, 3752M, 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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	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	9.800 A @ 575.0 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J

Part Detail

Revision	B
Type	AC
Mech. spec.	37H244
Base	
Status	PRD/A
Elec. spec.	37WGL872
Layout	37LYH244
Eff. date	05-02-2024
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	01-05-2021

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3752M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.52 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 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

NP3441L											
CAT.NO.	EM3714T-5										
SPEC.	37H244L872										
HP	10										
VOLTS	575										
AMP	9.8										
RPM	1765										
FRAME	215T		HZ	60				PH	3		
SER.F.	1.15	CODE	J	DES	A	CL	F				
NEMA-NOM-EFF	91.7	PF	83								
RATING	40C AMB-CONT										
CC	010A										
DE	6307		ODE	6206							
ENCL	TEFC	SN									
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data

Record # 86053

Typical performance - not guaranteed values

Winding: 37WGL872-R001				Type: 3752M		Enclosure: TEFC		
Nameplate Data				575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		10		Full Load Torque		29.7 LB-FT		
Volts		575		Start Configuration		direct on line		
Full Load Amps		9.8		Breakdown Torque		94 LB-FT		
R.P.M.		1765		Pull-up Torque		43.5 LB-FT		
Hz		60 Phase		3		Locked-rotor Torque		57.8 LB-FT
NEMA Design Code		A KVA Code		J		Starting Current		75.1 A
Service Factor (S.F.)		1.15				No-load Current		3.9 A
NEMA Nom. Eff.		91.7 Power Factor		83		Line-line Res. @ 25°C		1.76 Ω
Rating - Duty		40C AMB-CONT				Temp. Rise @ Rated Load		76°C
S.F. Amps		11.2				Temp. Rise @ S.F. Load		94°C
						Locked-rotor Power Factor		43.7
						Rotor inertia		1.28 lb-ft²

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	69	79	83	85	86	85
Efficiency	89	92.3	92.4	91.7	90.6	89.4	91.1
Speed	1792	1784	1776	1767	1757	1746	1761
Line amperes	4.51	5.93	7.73	9.84	12.2	14.7	11.2

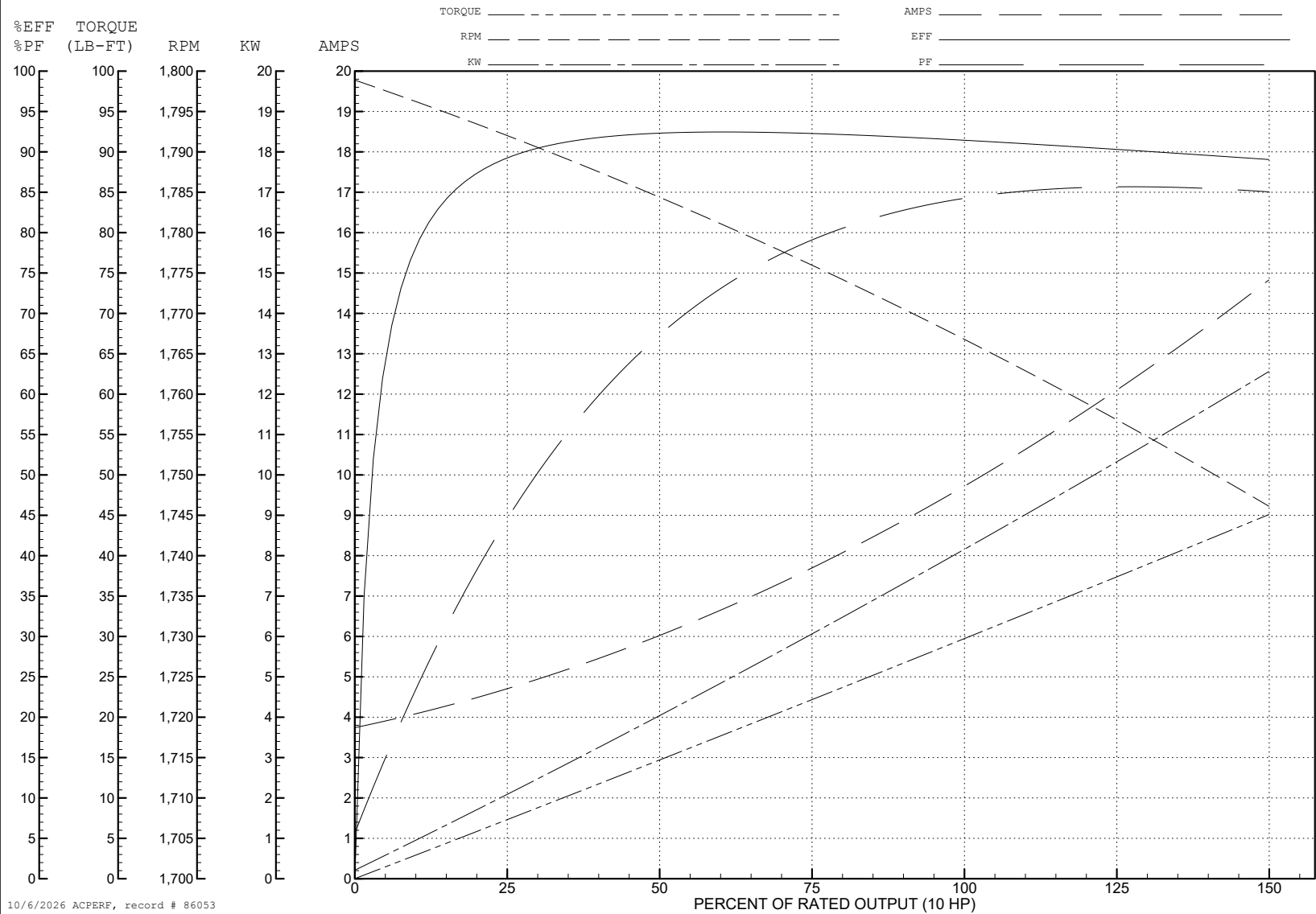
ABB Motors and Mechanical Inc.

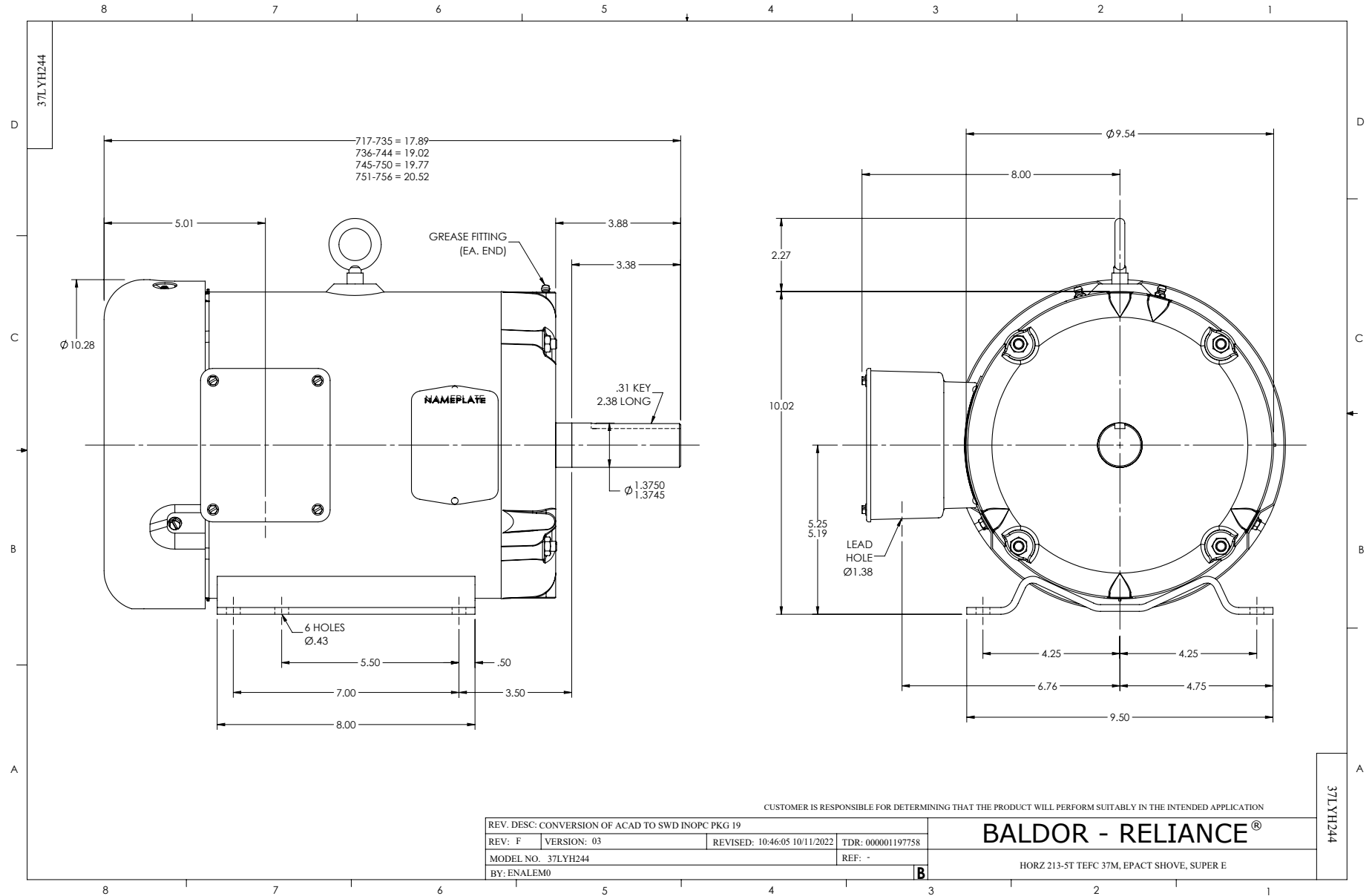
WINDING # 37WGL872

Typical performance - not guaranteed values.

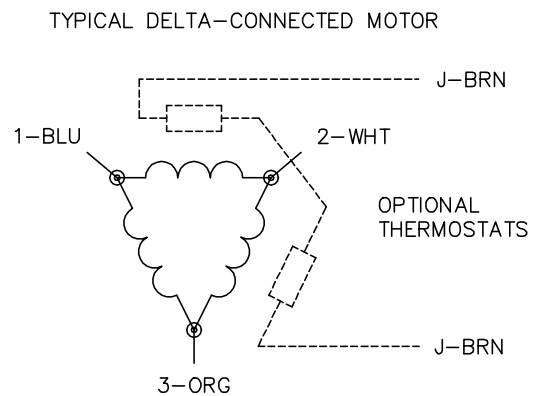
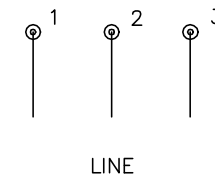
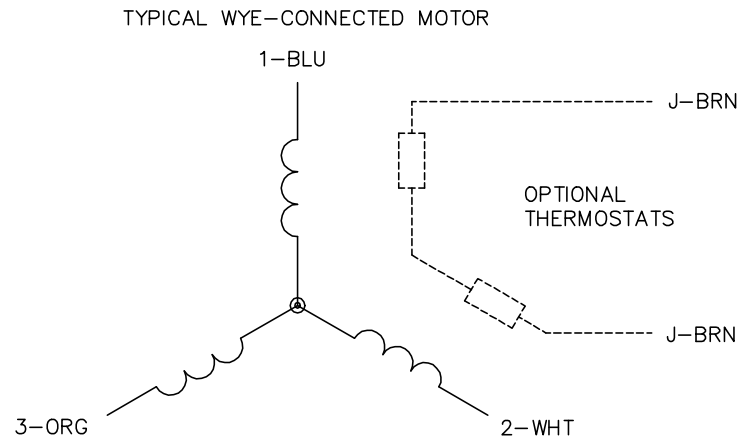
10 HP 3 PH 60 HZ 1765 RPM 575 V 3752M

TORQUES (LB-FT): PO=94 PU=43.5 LR=57.8 LRA=75.1





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

SH 1 of 1