ABB BALDOR RELIANCE

Customer information packet

EJMM3713T

15HP, 3495RPM, 3PH, 60HZ, 215JM, 3744M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215JM
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 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	38.500 A @ 208.0 V
	35.500 A @ 230.0 V
	17.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	A
Type	AC
Mech. spec.	37M031
Base	
Status	PRD/A
Elec. spec.	37WGZ713
Layout	37LYM031
Eff. date	04-06-2026
CD Diagram	CD0180
Poles	02
Leads	9#14
Proprietary	False
Created date	11-10-2025

High Voltage Full Load Amps	17.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	20.88 IN
Power Factor	86
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3495 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

NP3441LUA									
CAT.NO.	EJMM3713T								
SPEC	37M031Z713G1								
HP	15								
VOLTS	208-230/460								
AMPS	38.5-35.5/17.7								
RPM	3495								
FRAME	215JM	**HZ**	60		**PH**	3			
SF	1.15	**CODE**	J	**DES**	A	**CLASS**	F		
NEMA NOM. EFF	91	**PF**	86						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	**SER**							
DE	6309	**ODE**	6206						
VPWM INVERTER READY	50HZ 15HP								
CT6-60H(10:1)VT3-60H(20:1									
	50HZ 190/380V 40.8/20.4A								SF1.0

AC Induction Motor Performance Data
Record # 116704
Typical performance - not guaranteed values

Winding: 37WGZ713-R003	**Type:** 3744M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			15
Volts			208-230/460
Full Load Amps			38.5-35.5/17.7
R.P.M.			3495
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91	**Power Factor**	86
Rating - Duty			40C AMB-CONT
S.F. Amps			42.3-40.4/20.2

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	22.44 LB-FT
Start Configuration	direct on line
Breakdown Torque	119 LB-FT
Pull-up Torque	38 LB-FT
Locked-rotor Torque	54.1 LB-FT
Starting Current	146 A
No-load Current	6.2 A
Line-line Res. @ 25ºC	0.53818 Ω
Temp. Rise @ Rated Load	87°C
Temp. Rise @ S.F. Load	114°C
Locked-rotor Power Factor	32.1
Rotor inertia	0.401 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	54	75	84	88	90	90	89
Efficiency	87.7	91.6	92.1	91.6	90.6	89.3	91
Speed	3575.5	3553	3529.7	3502.4	3472.3	3441.9	3484
Line amperes	7.4	10.1	13.5	17.4	21.6	26.1	19.9

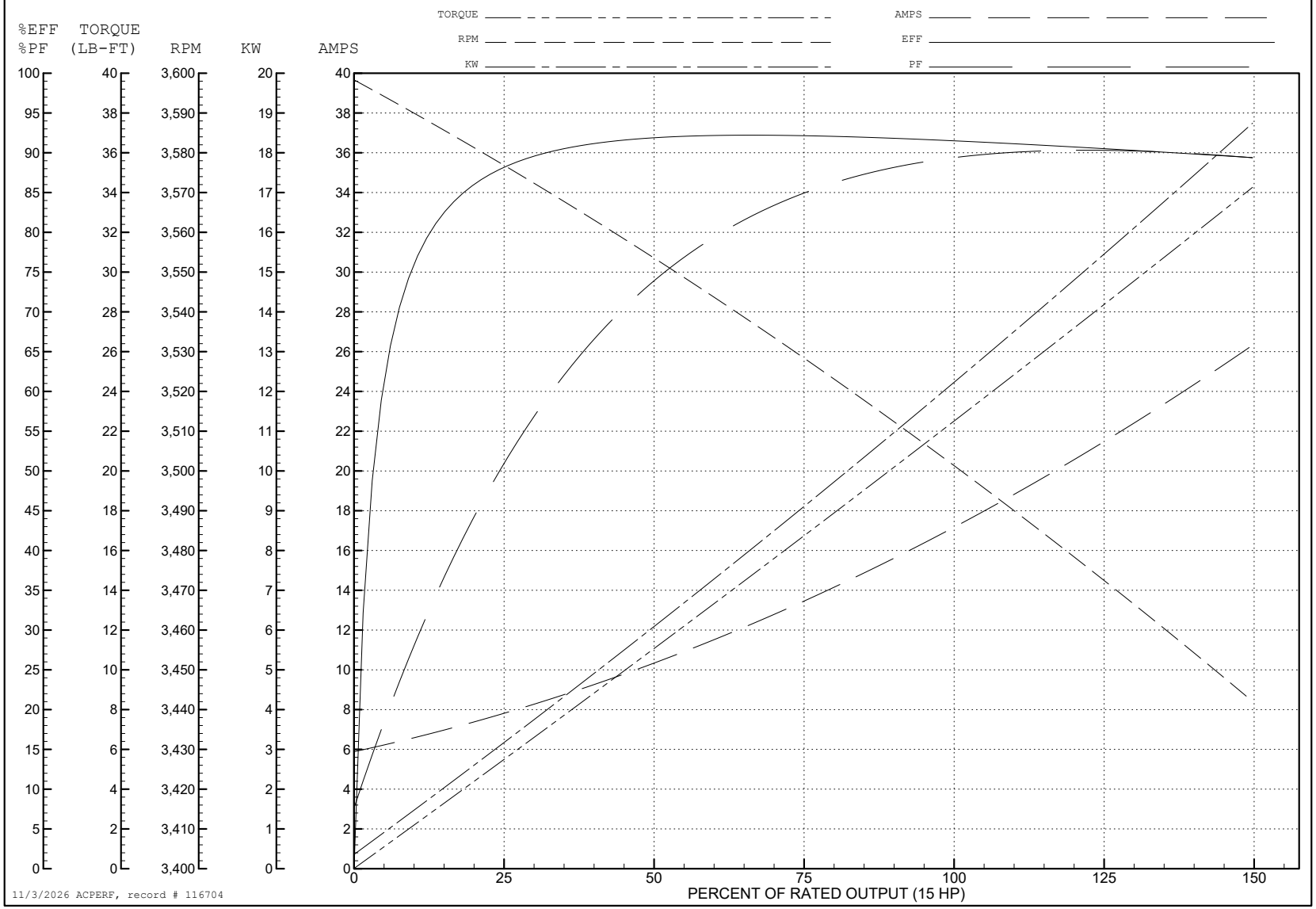
ABB Motors and Mechanical Inc.

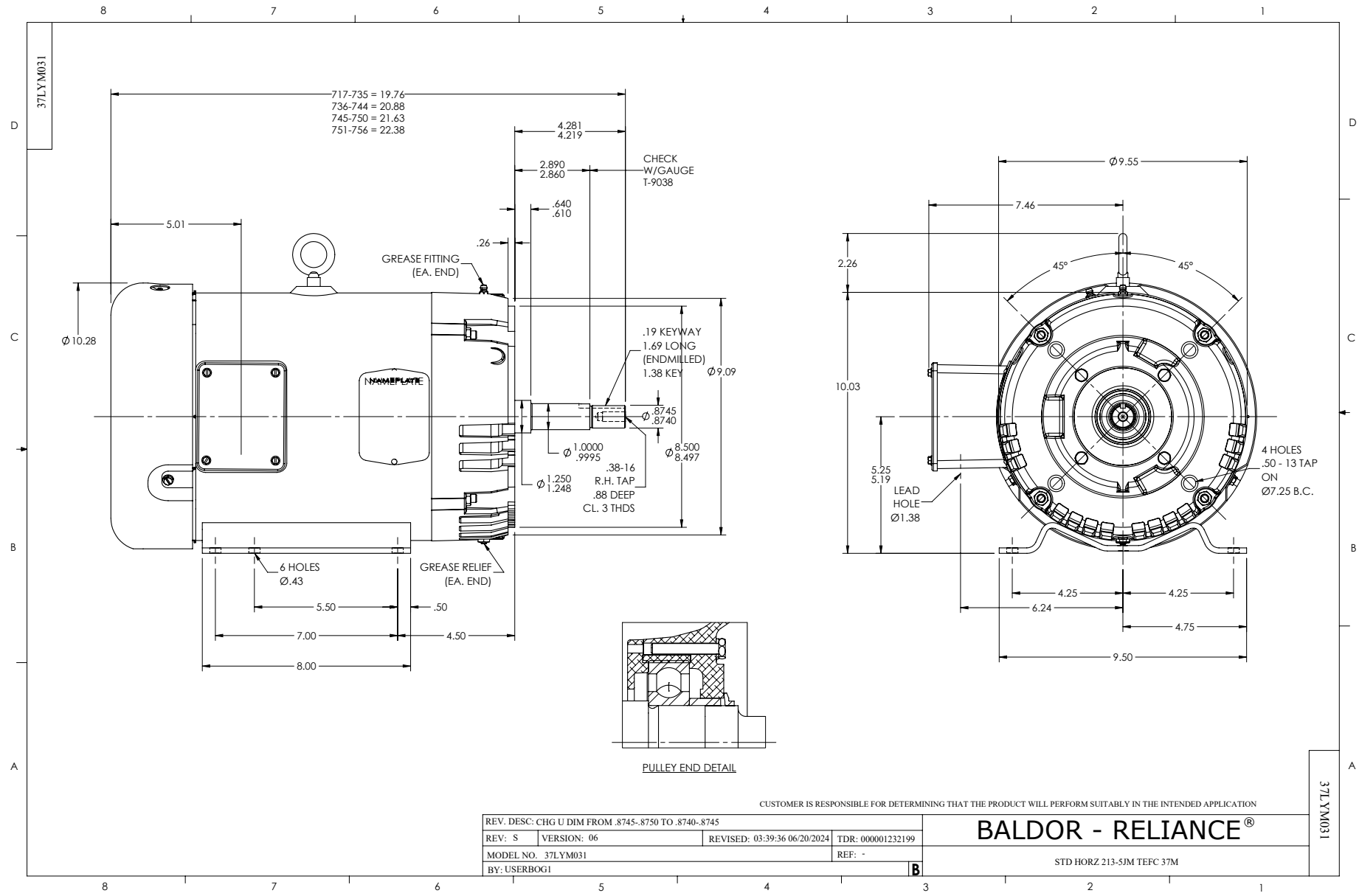
WINDING # 37WGZ713

15 HP 3 PH 60 HZ 3495 RPM 460 V 3744M

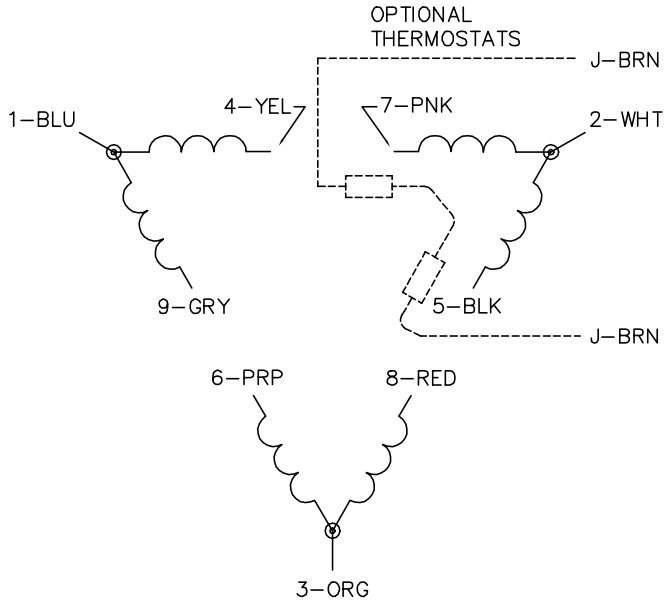
Typical performance - not guaranteed values.

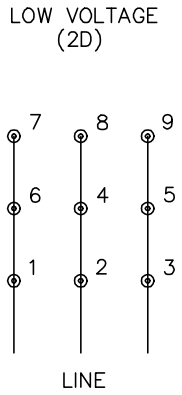
TORQUES(LB-FT): PO=119 PU=38 LR=54.1 LRA=146

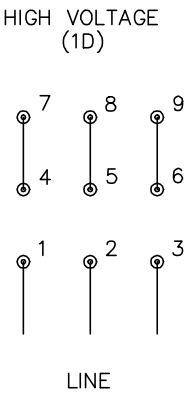



37LYM031
717-735 = 19.76
736-744 = 20.88
745-750 = 21.63
751-756 = 22.38
4.281
4.219
2.890
2.860
CHECK
W/GAUGE
T-9038
.640
.610
5.01
.26
GREASE FITTING
(EA. END)
Ø 10.28
NAMEPLATE
.19 KEYWAY
1.69 LONG
(ENDMILLED)
1.38 KEY
Ø9.09
Ø .8745
.8740
Ø 1.0000
.9995
Ø 1.250
1.248
.38-16
R.H. TAP
.88 DEEP
CL. 3 THDS
Ø 8.500
8.497
6 HOLES
Ø.43
GREASE RELIEF
(EA. END)
5.50
.50
7.00
4.50
8.00
Ø9.55
7.46
2.26
45°
45°
10.03
5.25
5.19
LEAD
HOLE
Ø1.38
4 HOLES
.50 - 13 TAP
ON
Ø7.25 B.C.
4.25
4.25
6.24
4.75
9.50
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHG U DIM FROM .8745-.8750 TO .8740-.8745
REV: S
VERSION: 06
REVISED: 03:39:36 06/20/2024
TDR: 000001232199
MODEL NO. 37LYM031
REF: -
BY: USERBOG1
B
BALDOR - RELIANCE®
STD HORZ 213-5JM TEFC 37M
37LYM031

CD0180







NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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