

ABB BALDOR RELIANCE III

Customer information packet

VEM3713T

15HP, 3495RPM, 3PH, 60HZ, 215TC, 3744M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	17.700 A @ 460.0 V 35.500 A @ 230.0 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
High Voltage Full Load Amps	17.7 a
Insulation Class	F

Part Detail

Revision	A
Type	AC
Mech. spec.	37H329
Base	
Status	PRD/A
Elec. spec.	37WGZ713
Layout	37LYH329
Eff. date	04-06-2026
CD Diagram	CD0180
Poles	02
Leads	9#14
Proprietary	False
Created date	11-07-2025

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	19.76 IN
Power Factor	86
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 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.	VEM3713T								
SPEC	37H329Z713								
HP	15								
VOLTS	230/460								
AMPS	35.5/17.7								
RPM	3495								
FRAME	215TC		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	6307	ODE	6206						
VPWM INVERTER READY	SFA 40.4/20.2								
CT6-60H(10:1)VT3-60H(20:1									
	50HZ 15HP 190/380V 40.8/20.4A							SF1.0	

AC Induction Motor Performance Data

Record # 116703

Typical performance - not guaranteed values

Winding: 37WGZ713-R002			Type: 3744M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		15	Full Load Torque		22.44 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		35.5/17.7	Breakdown Torque		119 LB-FT			
R.P.M.		3495	Pull-up Torque		38 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		54.1 LB-FT		
NEMA Design Code		A	KVA Code	J	Starting Current		146 A	
Service Factor (S.F.)		1.15	No-load Current		6.2 A			
NEMA Nom. Eff.		91	Power Factor		86	Line-line Res. @ 25°C		0.53818 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		87°C	
S.F. Amps		40.4/20.2	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

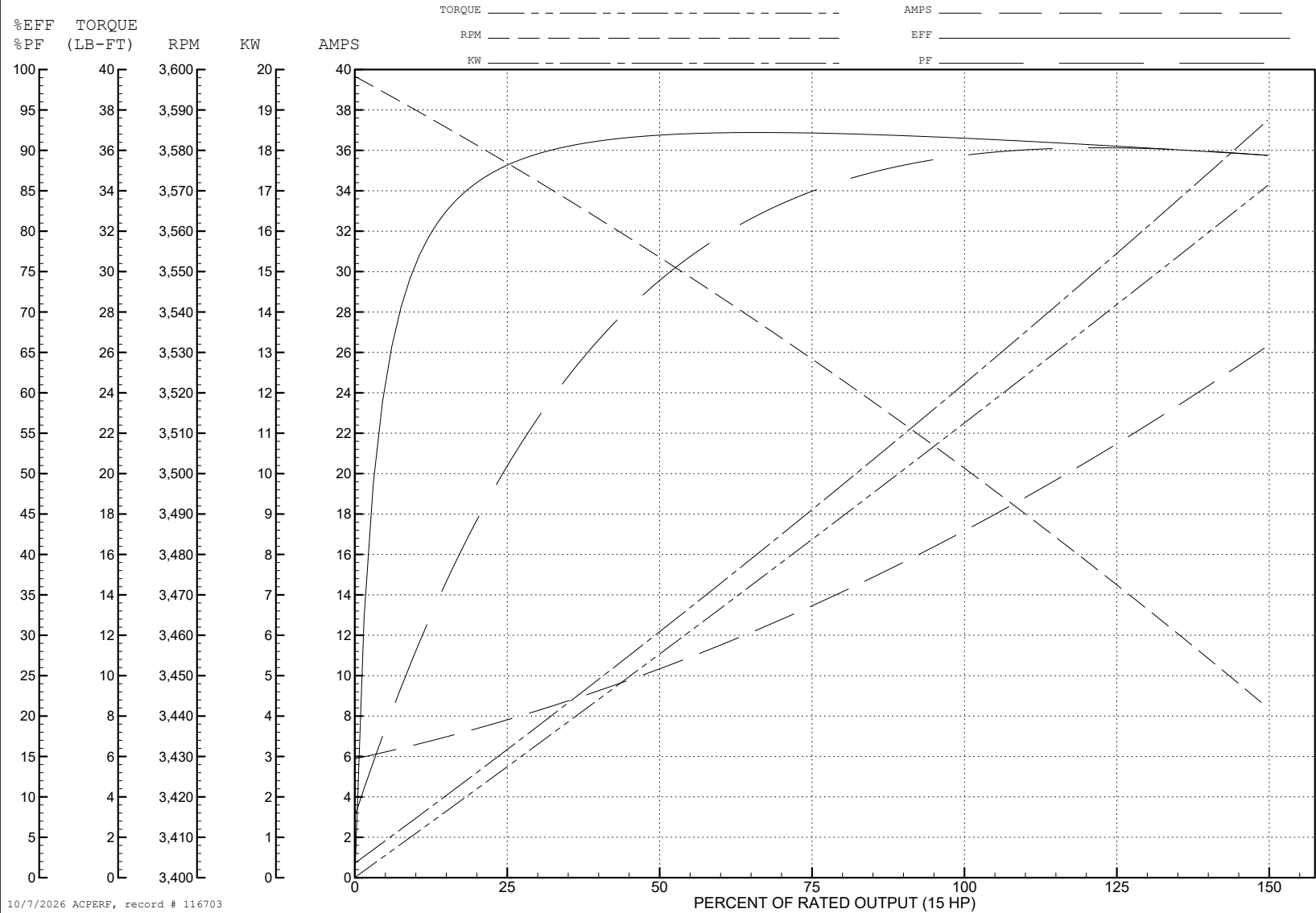
ABB Motors and Mechanical Inc.

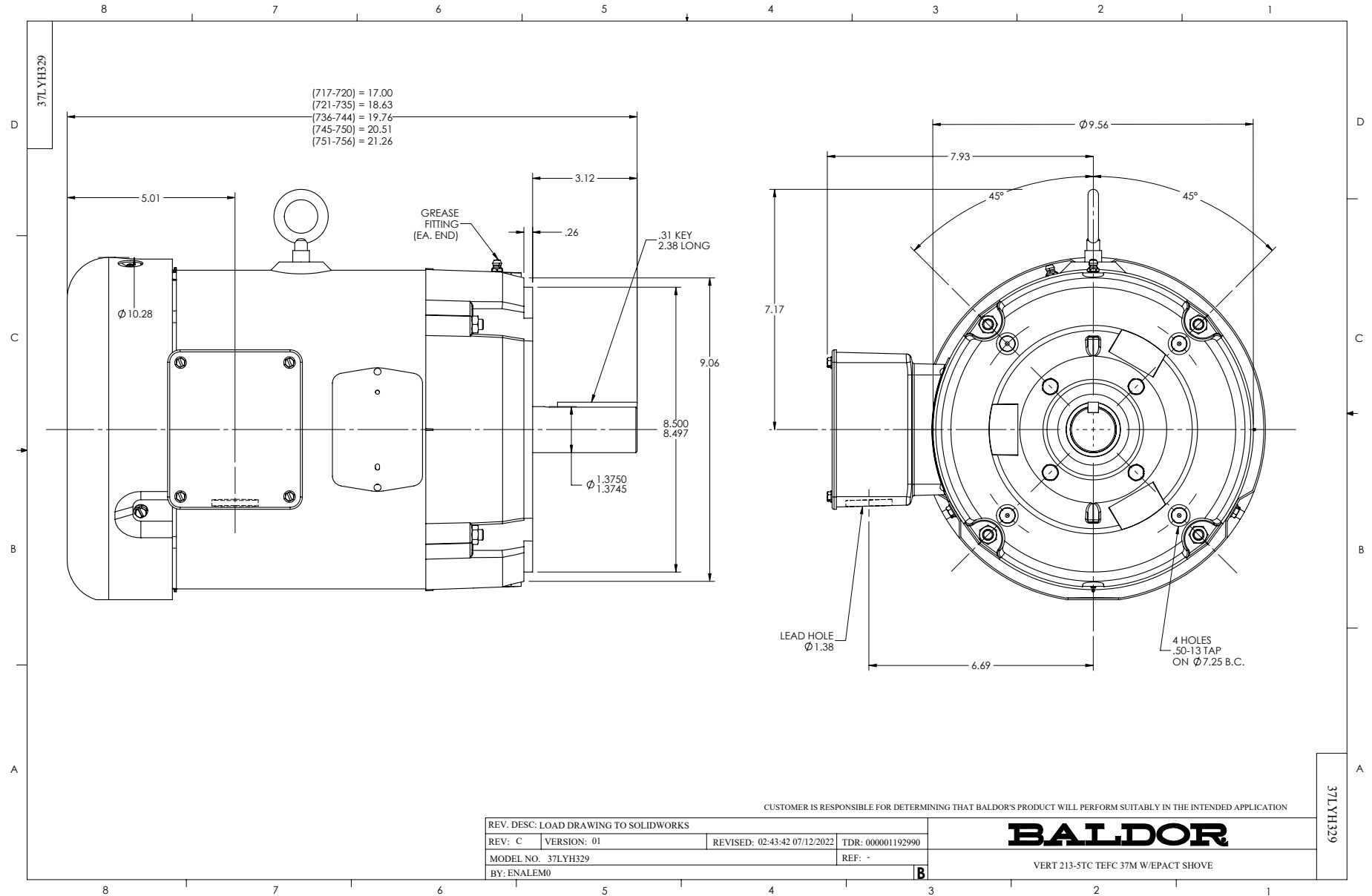
WINDING # 37WGZ713

Typical performance - not guaranteed values.

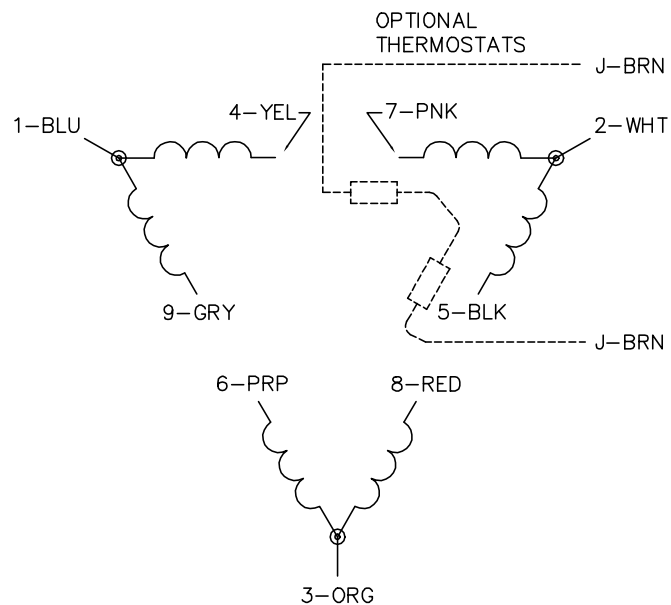
15 HP 3 PH 60 HZ 3495 RPM 460 V 3744M

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

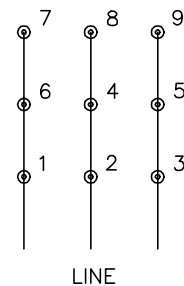




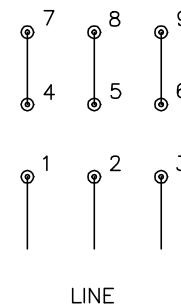
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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: ENBRIRO

MTL: —



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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