ABB BALDOR RELIANCE

Customer information packet

VEM3714T-5

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3752M, TEFC, F
Class - None
Division - Not Applicable

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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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	9.600 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 Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.6 a
Insulation Class	F

Part Detail

Revision	L
Type	AC
Mech. spec.	37H329
Base	
Status	PRD/A
Elec. spec.	37WGS829
Layout	37LYH329
Eff. date	05-02-2024
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	05-06-2010

Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
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	21.26 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
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

NP3441L									
CAT.NO.	VEM3714T-5								
SPEC.	37H329S829G1								
HP	10								
VOLTS	575								
AMP	9.6								
RPM	1770								
FRAME	215TC	**HZ**	60				**PH**	3	
SER.F.	1.15	**CODE**	K	**DES**	A	**CL**	F		
NEMA-NOM-EFF	91.7	**PF**	85						
RATING	40C AMB-CONT								
CC	010A								
DE	6307	**ODE**	6206						
ENCL	TEFC	**SN**							
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									

AC Induction Motor Performance Data
Record # 31008
Typical performance - not guaranteed values

Winding: 37WGS829-R001	**Type:** 3752M	**Enclosure:** TEFC

Nameplate Data			**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)		10	**Full Load Torque**	29.5 LB-FT
Volts		575	**Start Configuration**	direct on line
Full Load Amps		9.6	**Breakdown Torque**	136 LB-FT
R.P.M.		1770	**Pull-up Torque**	50 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	69.8 LB-FT
NEMA Design Code	A **KVA Code**	K	**Starting Current**	83.9 A
Service Factor (S.F.)		1.15	**No-load Current**	4.52 A
NEMA Nom. Eff.	91.7 **Power Factor**	85	**Line-line Res. @ 25ºC**	1.42 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps			**Temp. Rise @ S.F. Load**	79°C
			Locked-rotor Power Factor	35
			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	41	65	78	85	83	87	84
Efficiency	88.4	92	92.7	91.9	90.7	88.9	91.2
Speed	1794	1787	1780	1772	1763	1753	1767
Line amperes	5.03	6.21	7.76	9.59	12.4	14.5	11.3

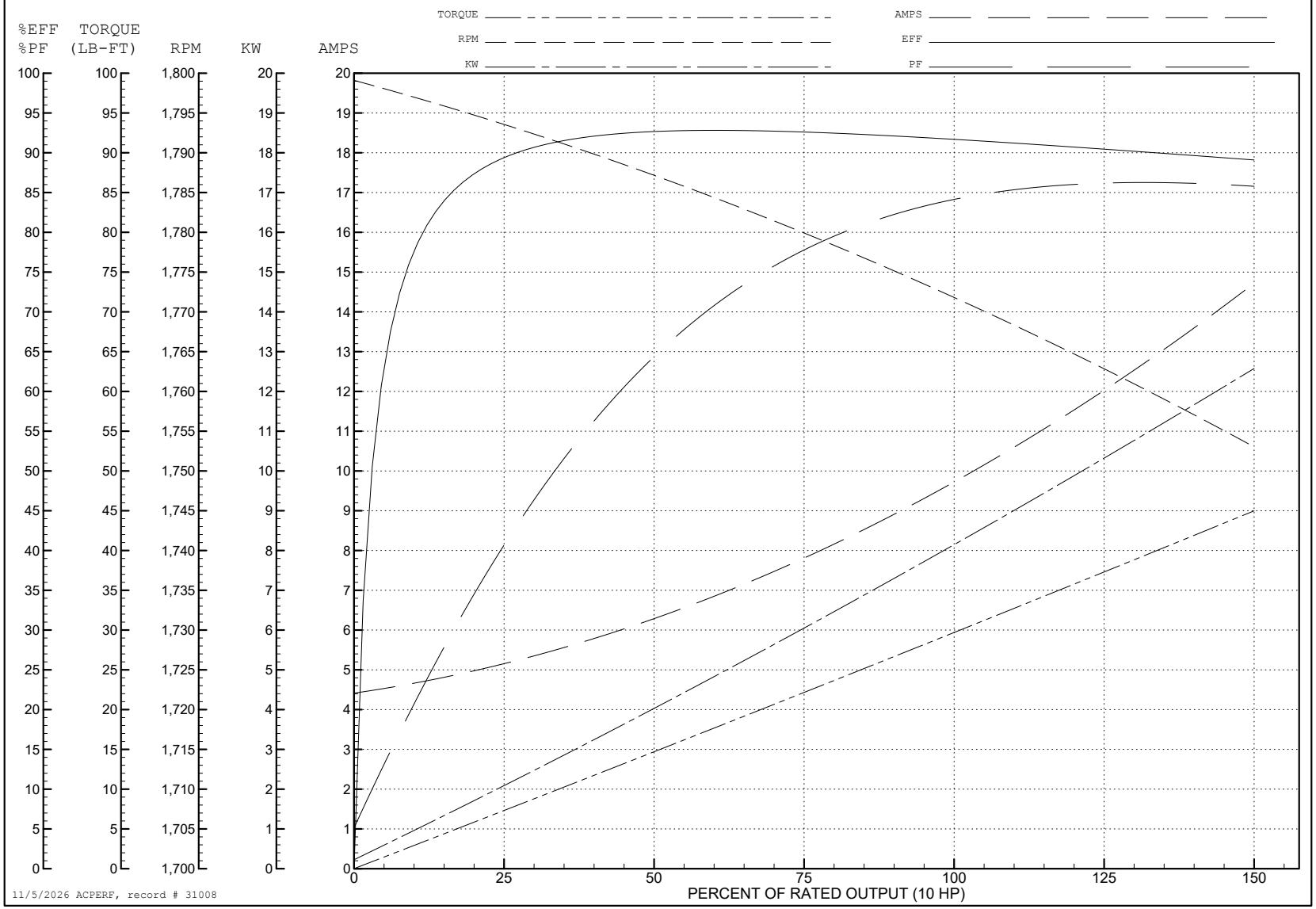
ABB Motors and Mechanical Inc.

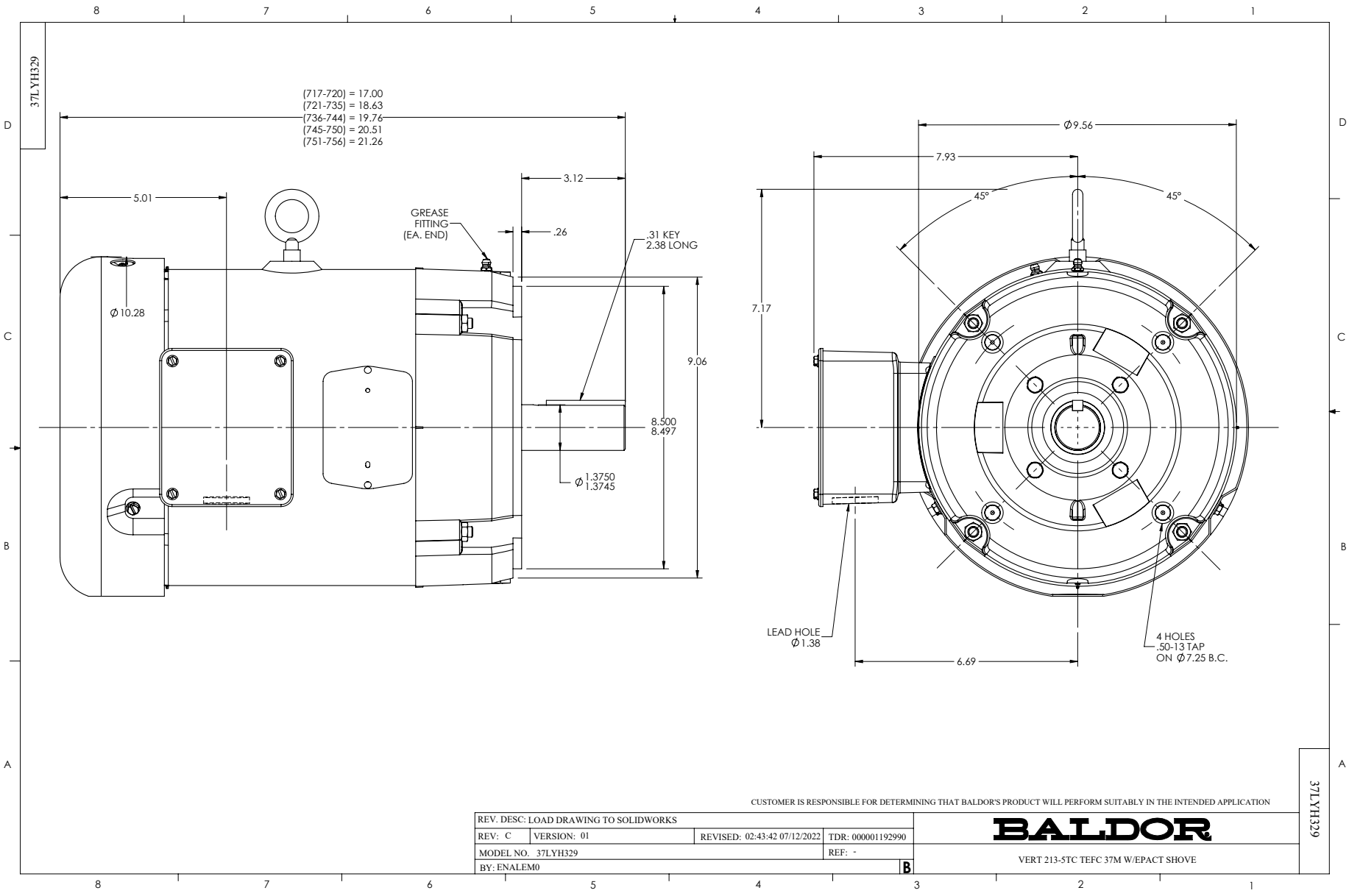
WINDING # 37WGS829

10 HP 3 PH 60 HZ 1770 RPM 575 V 3752M

Typical performance - not guaranteed values.

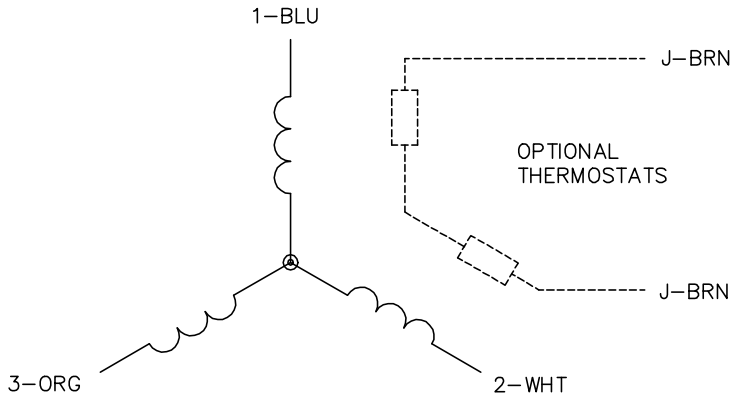
TORQUES(LB-FT): PO=136 PU=50 LR=69.8 LRA=83.9

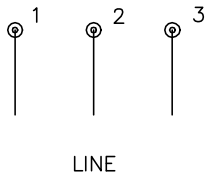



37LYH329
(717-720) = 17.00
(721-735) = 18.63
(736-744) = 19.76
(745-750) = 20.51
(751-756) = 21.26
5.01
3.12
.26
GREASE FITTING (EA. END)
.31 KEY 2.38 LONG
Ø10.28
9.06
8.500
8.497
Ø 1.3750
1.3745
Ø9.56
7.93
45°
45°
7.17
LEAD HOLE Ø1.38
6.69
4 HOLES .50-13 TAP ON Ø7.25 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: C
VERSION: 01
REVISED: 02:43:42 07/12/2022
TDR: 000001192990
MODEL NO. 37LYH329
REF: -
BY: ENALEM0
B
BALDOR
VERT 213-5TC TEFC 37M W/EPACT SHOVE
37LYH329

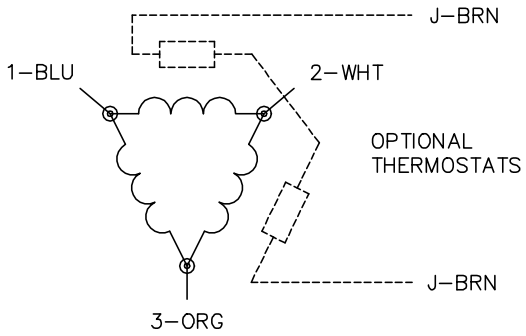
CD0006

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

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

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