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# Customer information packet

## VEM3713T-5

15HP, 3500RPM, 3PH, 60HZ, 215TC, 3752M, TEFC, F

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	215TC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	UR CSA CSA EEV
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	13.600 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
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	13.6 a
Insulation Class	F

## Part detail

Revision	G
Type	AC
Mech. spec.	37H329
Base	
Status	PRD/A
Elec. spec.	37WGR248
Layout	37LYH329
Eff. date	07-02-2020
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	03-01-2012

<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	J
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	3 @ 14 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3752M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	21.26 IN
<b>Power Factor</b>	89
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.375 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	3500 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

**NP3441L**

<b>CAT.NO.</b>	VEM3713T-5						
<b>SPEC.</b>	37H329R248G1						
<b>HP</b>	15						
<b>VOLTS</b>	575						
<b>AMP</b>	13.6						
<b>RPM</b>	3500						
<b>FRAME</b>	215TC		<b>HZ</b>	60		<b>PH</b>	3
<b>SER.F.</b>	1.15	<b>CODE</b>	J	<b>DES</b>	A	<b>CL</b>	F
<b>NEMA-NOM-EFF</b>	91	<b>PF</b>	89				
<b>RATING</b>	40C AMB-CONT						
<b>CC</b>	010A	<b>USABLE AT 208V</b>					
<b>DE</b>	6307	<b>ODE</b>	6206				
<b>ENCL</b>	TEFC	<b>SN</b>					

**VPWM INVERTER READY**

**CT6-60H(10:1)VT3-60H(20:1)**

**AC Induction Motor Performance Data**

Record # 37489

Typical performance - not guaranteed values

<b>Winding: 37WGR248-R001</b>		<b>Type: 3752M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>		
<b>Rated Output (HP)</b>	15	<b>Full Load Torque</b>	22.1 LB-FT		
<b>Volts</b>	575	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	13.6	<b>Breakdown Torque</b>	104 LB-FT		
<b>R.P.M.</b>	3500	<b>Pull-up Torque</b>	40.3 LB-FT		
<b>Hz</b>	60	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	57.8 LB-FT
<b>NEMA Design Code</b>	A	<b>KVA Code</b>	J	<b>Starting Current</b>	120 A
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	4.44 A		
<b>NEMA Nom. Eff.</b>	91	<b>Power Factor</b>	89	<b>Line-line Res. @ 25°C</b>	0.702 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	67°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	82°C	
			<b>Locked-rotor Power Factor</b>	30	
			<b>Rotor inertia</b>	0.474 LB-FT <sup>2</sup>	

**Load Characteristics 575 V, 60 Hz, 15 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	56	77	85	89	90	90	90
<b>Efficiency</b>	86.8	91.1	92	91.9	91	90	91.4
<b>Speed</b>	3579	3558	3534	3510	3485	3456	3495
<b>Line amperes</b>	5.36	7.63	10.6	13.6	16.9	20.5	15.6

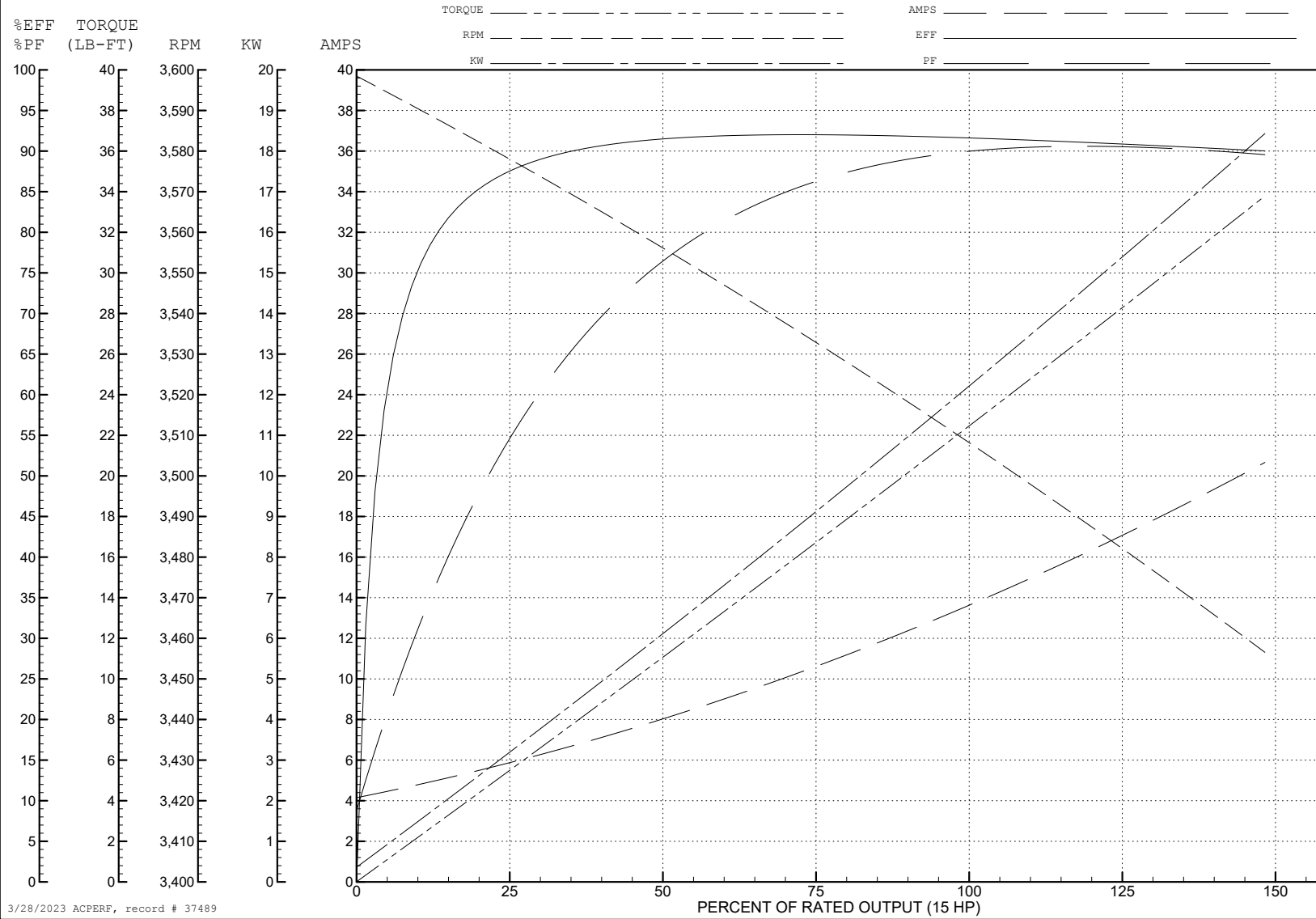
ABB Motors and Mechanical Inc.

WINDING # 37WGR248

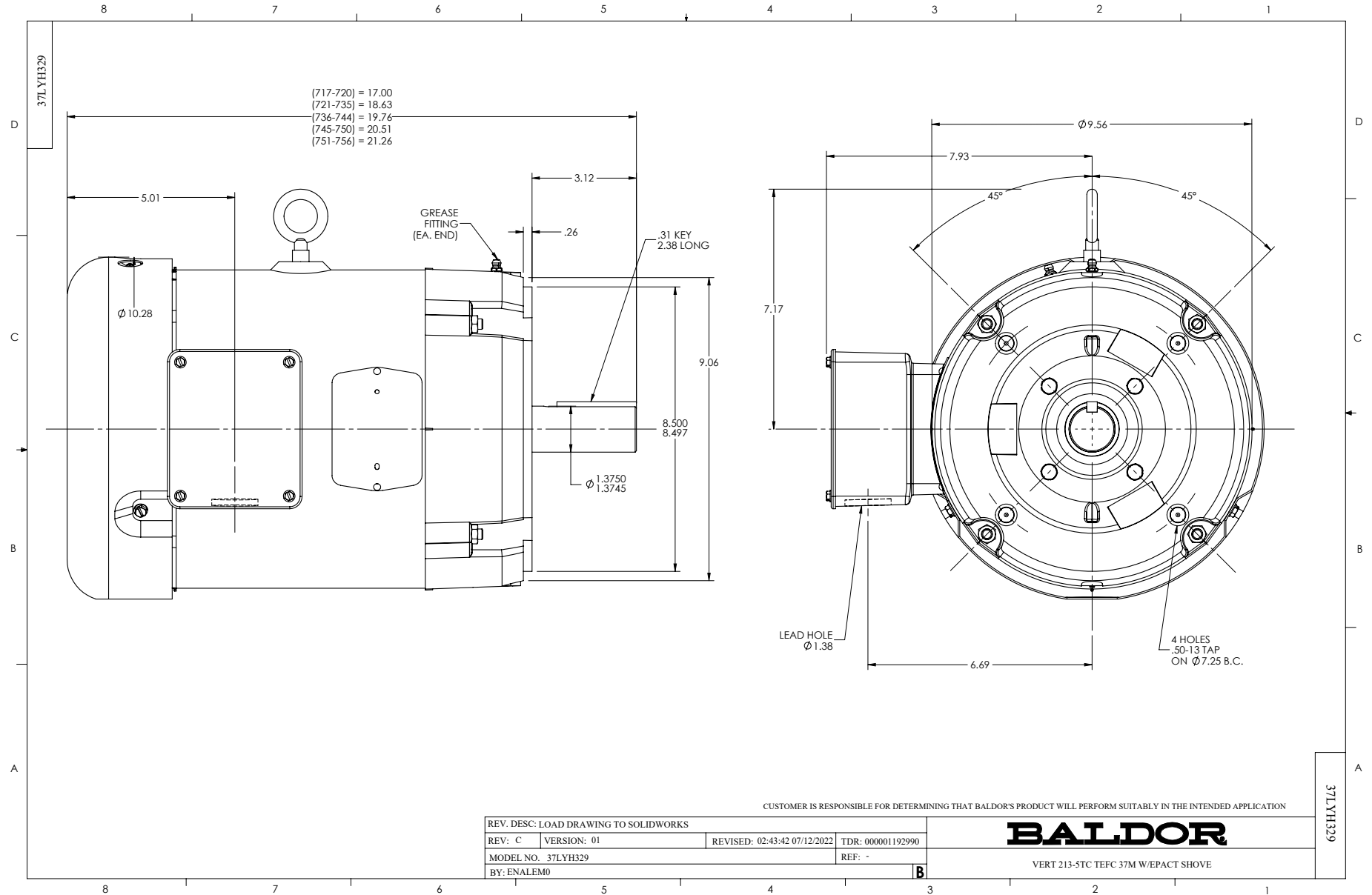
Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 3500 RPM 575 V 3752M

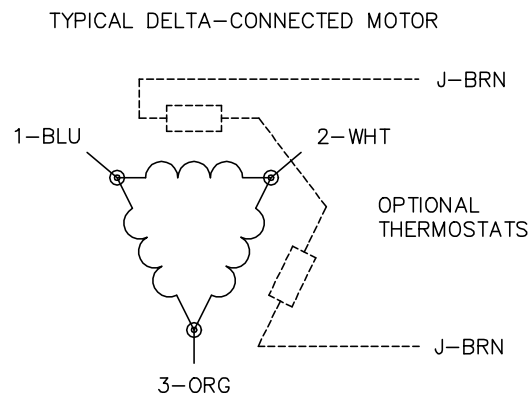
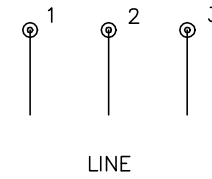
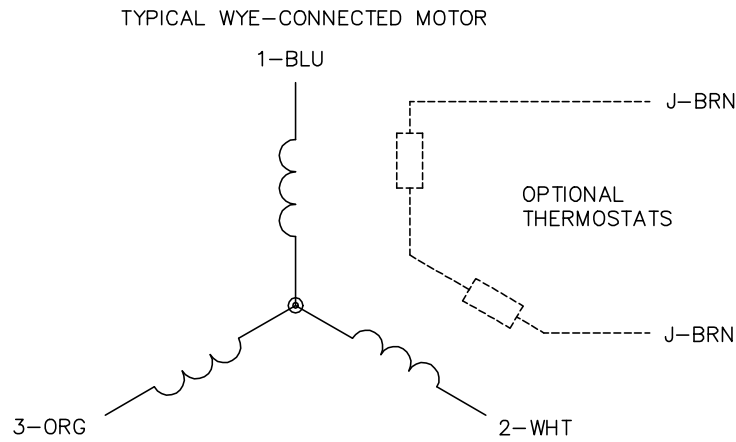
TORQUES (LB-FT): PO=104 PU=40.3 LR=57.8 LRA=120



3/28/2023 ACPERF, record # 37489



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