

**BALDOR • RELIANCE**

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# Customer information packet

## CEM3713T-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
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	575.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM NEMA_PREMIUM UR CSA EEV
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
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

## Part detail

Revision	J
Type	AC
Mech. spec.	37G814
Base	
Status	PRD/A
Elec. spec.	37WGR248
Layout	37LYG814
Eff. date	05-02-2024
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	03-01-2012

High Voltage Full Load Amps	13.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
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	2
Overall Length	21.26 IN
Power Factor	89
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	3500 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**

<b>CAT.NO.</b>	CEM3713T-5						
<b>SPEC.</b>	37G814R248G1						
<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>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

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

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

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

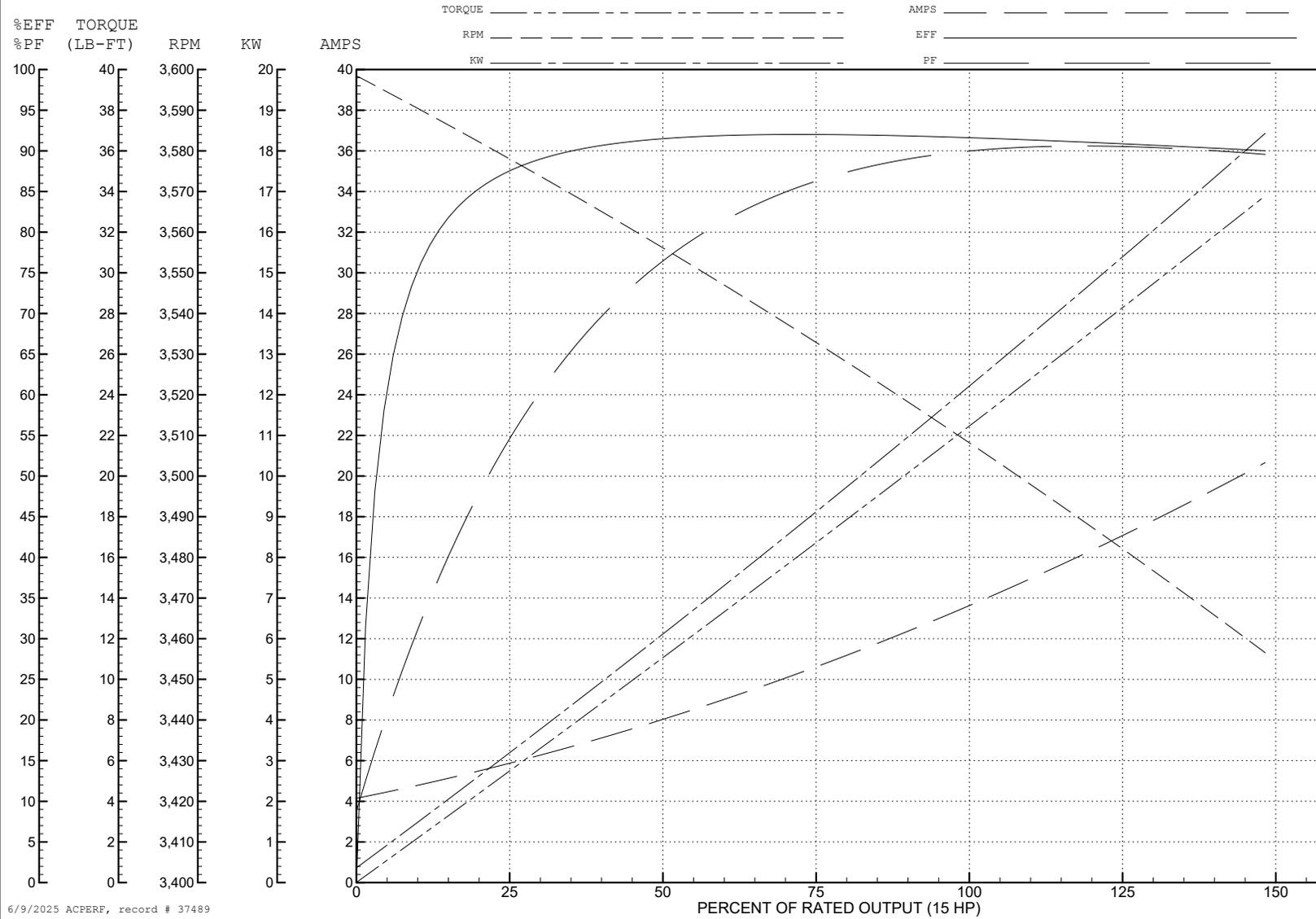
ABB Motors and Mechanical Inc.

WINDING # 37WGR248

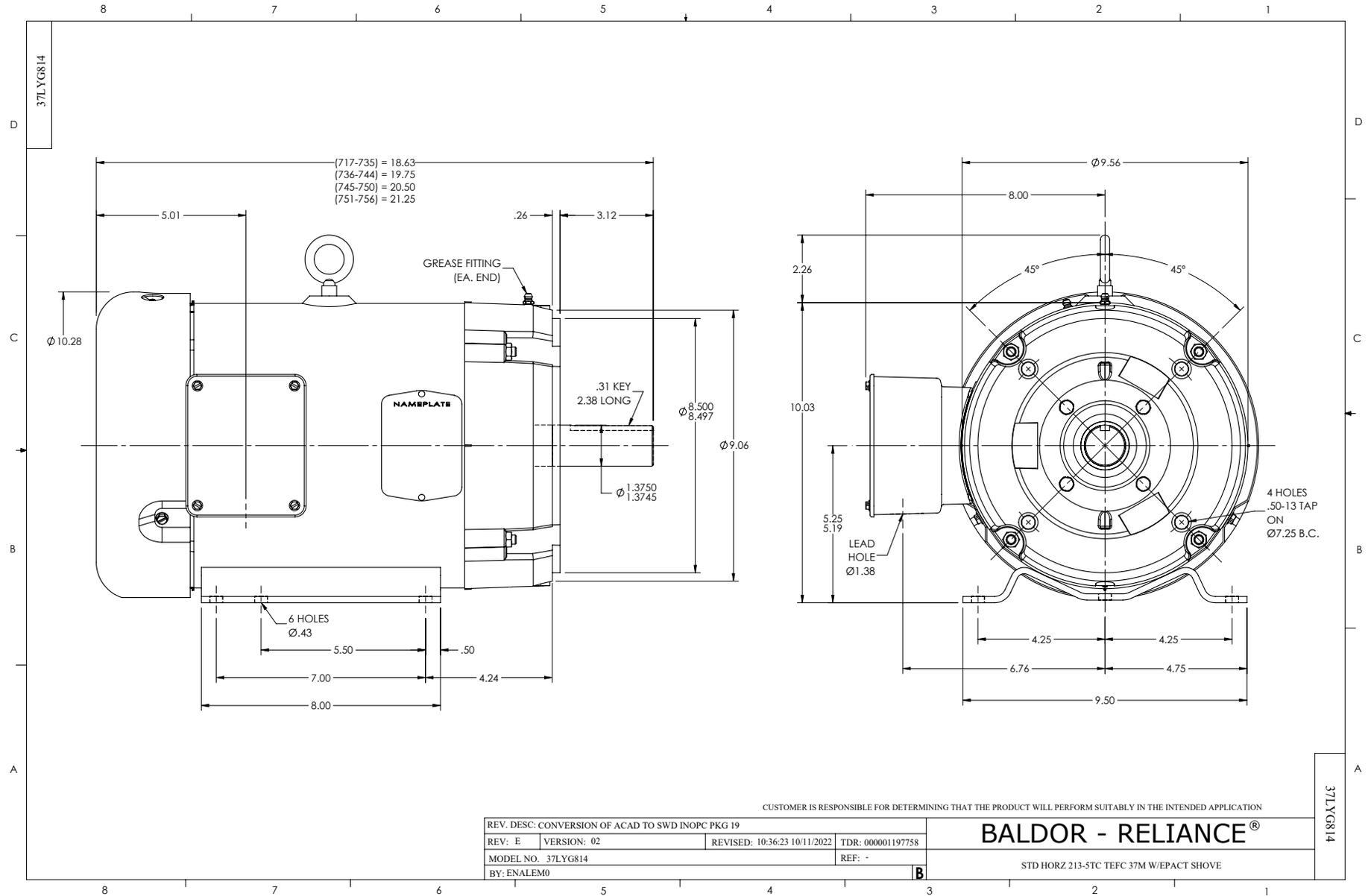
Typical performance - not guaranteed values.

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

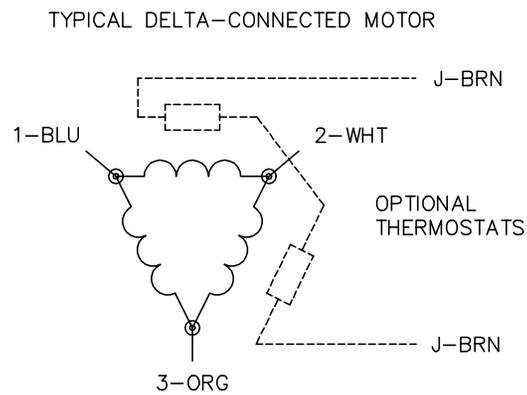
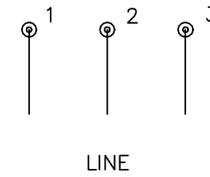
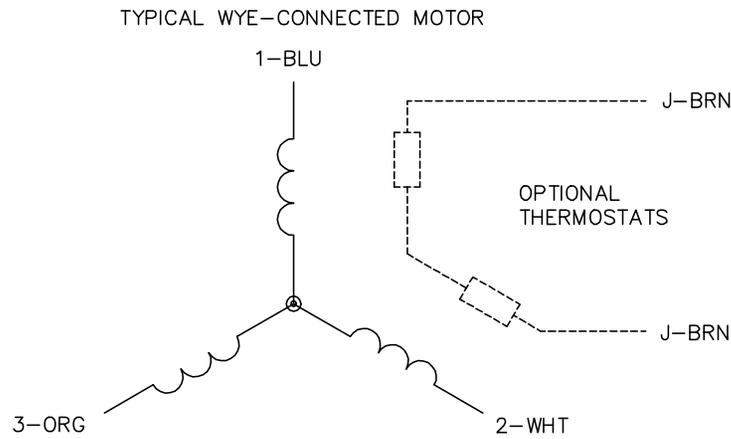
TORQUES (LB-FT): PO=104 PU=40.3 LR=57.8 LRA=120



6/9/2025 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

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