

BALDOR • RELIANCE

Customer information packet

CEM3713T

15HP, 3500RPM, 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	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	CSA EEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM UR
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	34.000 A @ 230.0 V 36.800 A @ 208.0 V 17.000 A @ 460.0 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

Part detail

Revision	P
Type	AC
Mech. spec.	37G814
Base	
Status	PRD/A
Elec. spec.	37WGR228
Layout	37LYG814
Eff. date	05-02-2024
CD Diagram	CD0180
Poles	02
Leads	9#14
Proprietary	False
Created date	03-01-2012

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	17.0 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	9 @ 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

NP3441LUA

CAT.NO.	CEM3713T						
SPEC	37G814R228G1						
HP	15						
VOLTS	230/460						
AMPS	34/17						
RPM	3500						
FRAME	215TC	HZ	60	PH	3		
SF	1.15	CODE	J	DES	A	CLASS	F
NEMA NOM. EFF	91	PF	89				
RATING	40C AMB-CONT						
CC	010A						
ENCL	TEFC	SER					
DE	6307	ODE	6206				
VPWM INVERTER READY							
CT6-60H(10:1)VT3-60H(20:1	50Hz 15HP 190/380V 40.8/20.4A						SF1.0

AC Induction Motor Performance Data

Record # 53380

Typical performance - not guaranteed values

Winding: 37WGR228-R023		Type: 3752M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	15	Full Load Torque	22.12 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	34/17	Breakdown Torque	103 LB-FT	
R.P.M.	3500	Pull-up Torque	40.16 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	57.59 LB-FT
NEMA Design Code	A KVA Code	J	Starting Current	150 A
Service Factor (S.F.)	1.15	No-load Current	5.55 A	
NEMA Nom. Eff.	91 Power Factor	89	Line-line Res. @ 25°C	0.47 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	68°C	
S.F. Amps		Temp. Rise @ S.F. Load	79°C	
		Locked-rotor Power Factor	30.9	
		Rotor inertia	0.474 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	78	85	89	90	90	89
Efficiency	86.8	91	91.9	91.4	90.8	89.8	91.3
Speed	3579	3557	3534	3500	3484	3456	3495
Line amperes	6.7	9.57	13.19	17.03	21.12	25.61	19.5

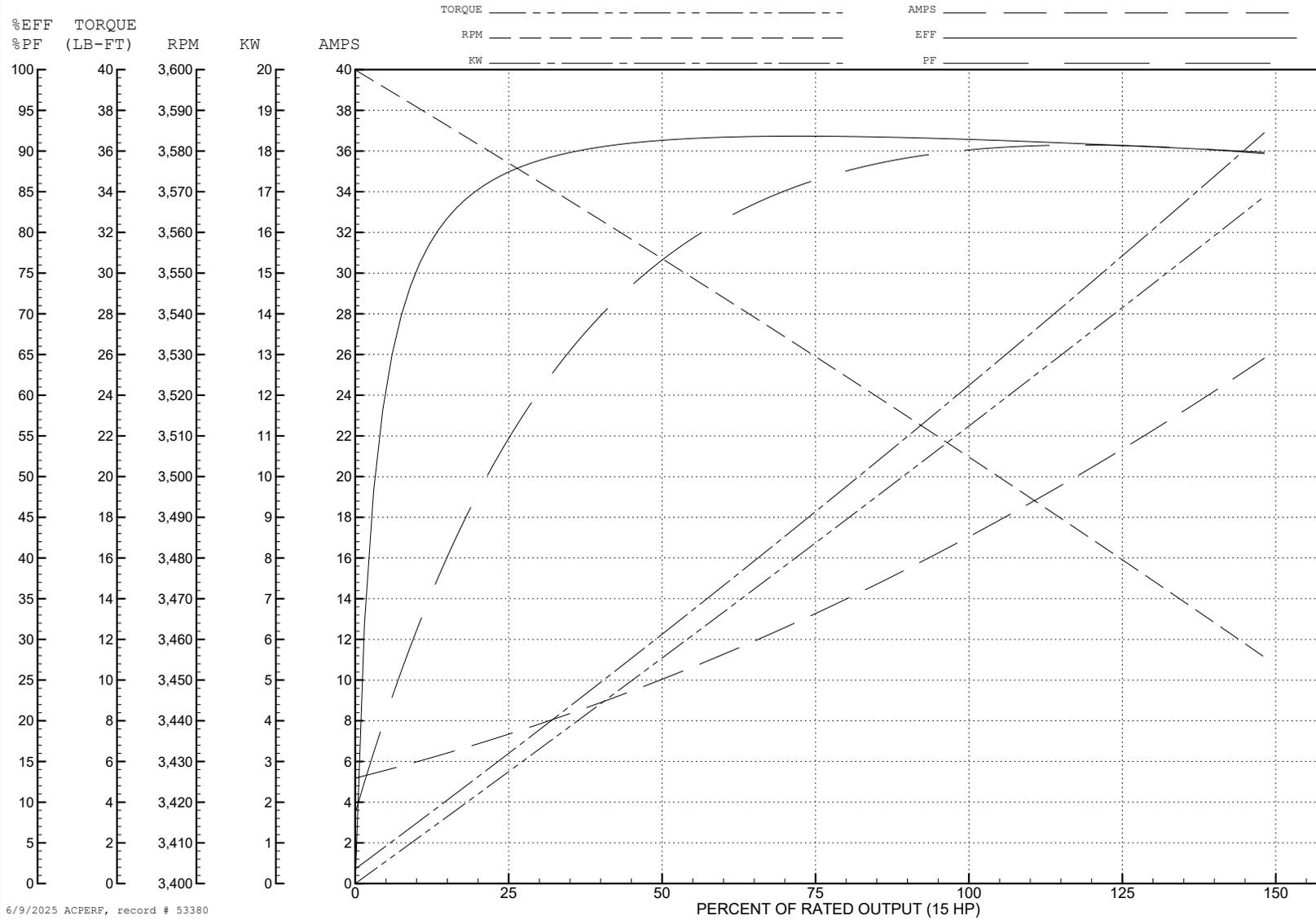
ABB Motors and Mechanical Inc.

WINDING # 37WGR228

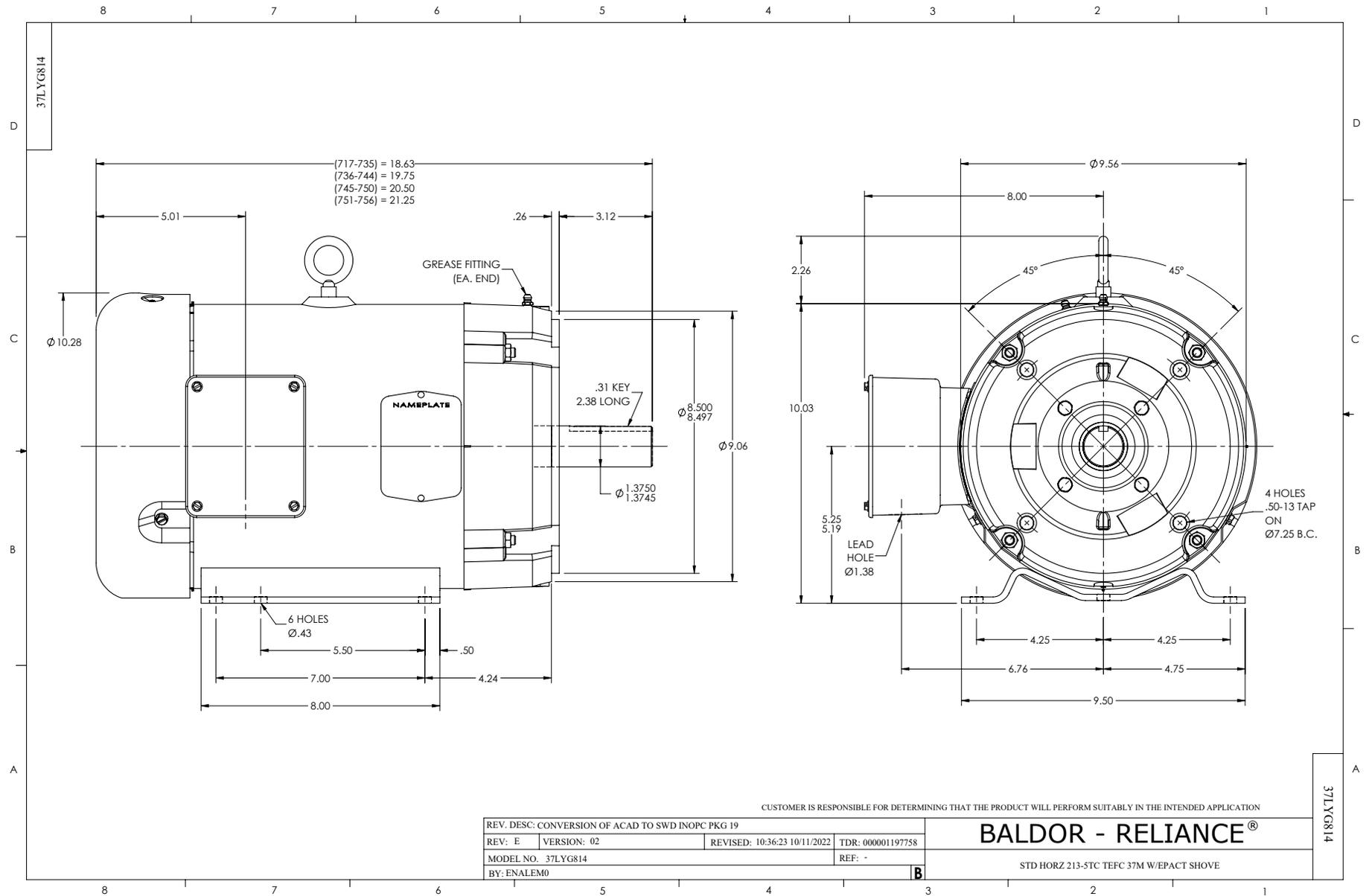
Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 3500 RPM 460 V 3752M

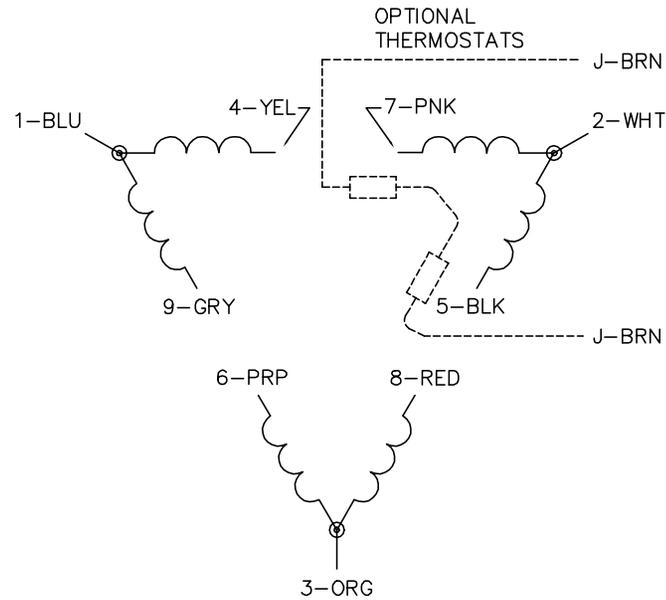
TORQUES (LB-FT): PO=103 PU=40.16 LR=57.59 LRA=150



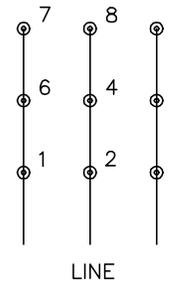
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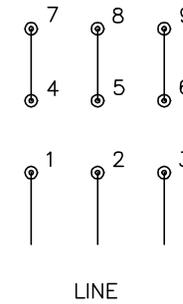
CD0180



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: -	© □	

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3PH, DV, 9 LEADS, DELTA CONNECTION

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