

BALDOR® • ***RELIANCE***

Product Information Packet

CEM3714T

10HP,1770RPM,3PH,60HZ,215TC,3752M,TEFC,F

Part Detail							
Revision:	K	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	37WGS518	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	37G814	Layout:	37LYG814	Poles:	04	Created Date:	07-30-2010
Base:	RG	Eff. Date:	10-24-2017	Leads:	9#14		

Specs			
Catalog Number:	CEM3714T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	215TC	Inverter Code:	Inverter Ready
Frame Material:	Steel	KVA Code:	K
Output @ Frequency:	10.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 14 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	3752M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	85
	CSA	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	12.000 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
	24.000 A @ 230.0 V	Shaft Rotation:	Reversible
	25.400 A @ 208.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	A	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3441LUA										
CAT.NO.	CEM3714T									
SPEC	37G814S518G2									
HP	10									
VOLTS	230/460									
AMPS	24/12									
RPM	1770									
FRAME	215TC				HZ	60			PH	3
SF	1.15		CODE	K	DES	A		CLASS	F	
NEMA NOM. EFF	91.7		PF	85						
RATING	40C AMB-CONT									
CC	010A				USABLE AT 208V					25.4
ENCL	TEFC		SER							
DE	6307			ODE	6206					
VPWM INVERTER READY										
CT6-60H(10:1)VT3-60H(20:1										
	50Hz 10HP 190/380V 29.2/14.6A								SF1.0	

AC Induction Motor Performance Data

Record # 62607 - Typical performance - not guaranteed values

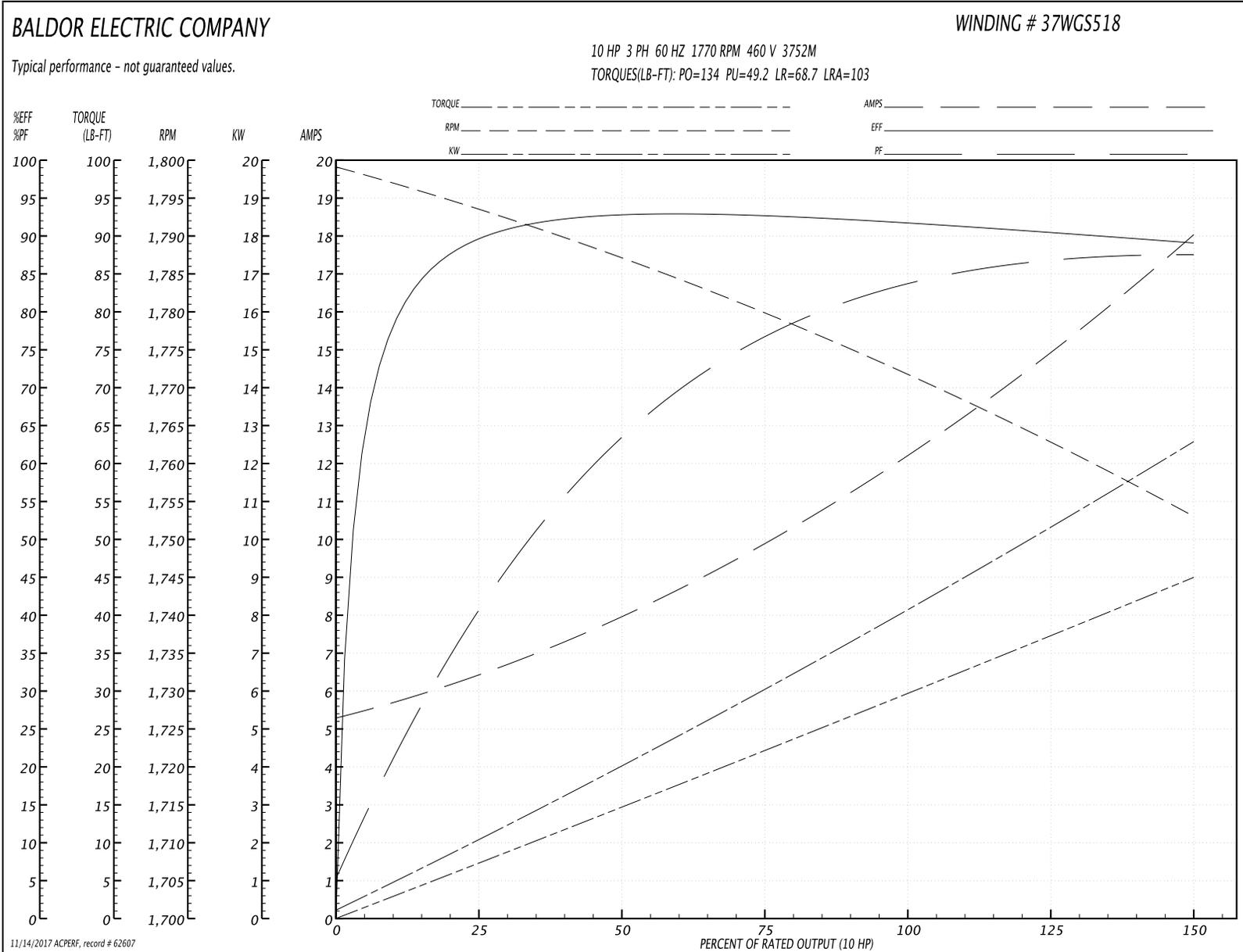
Winding: 37WGS518-R015	Type: 3752M	Enclosure: TEFC
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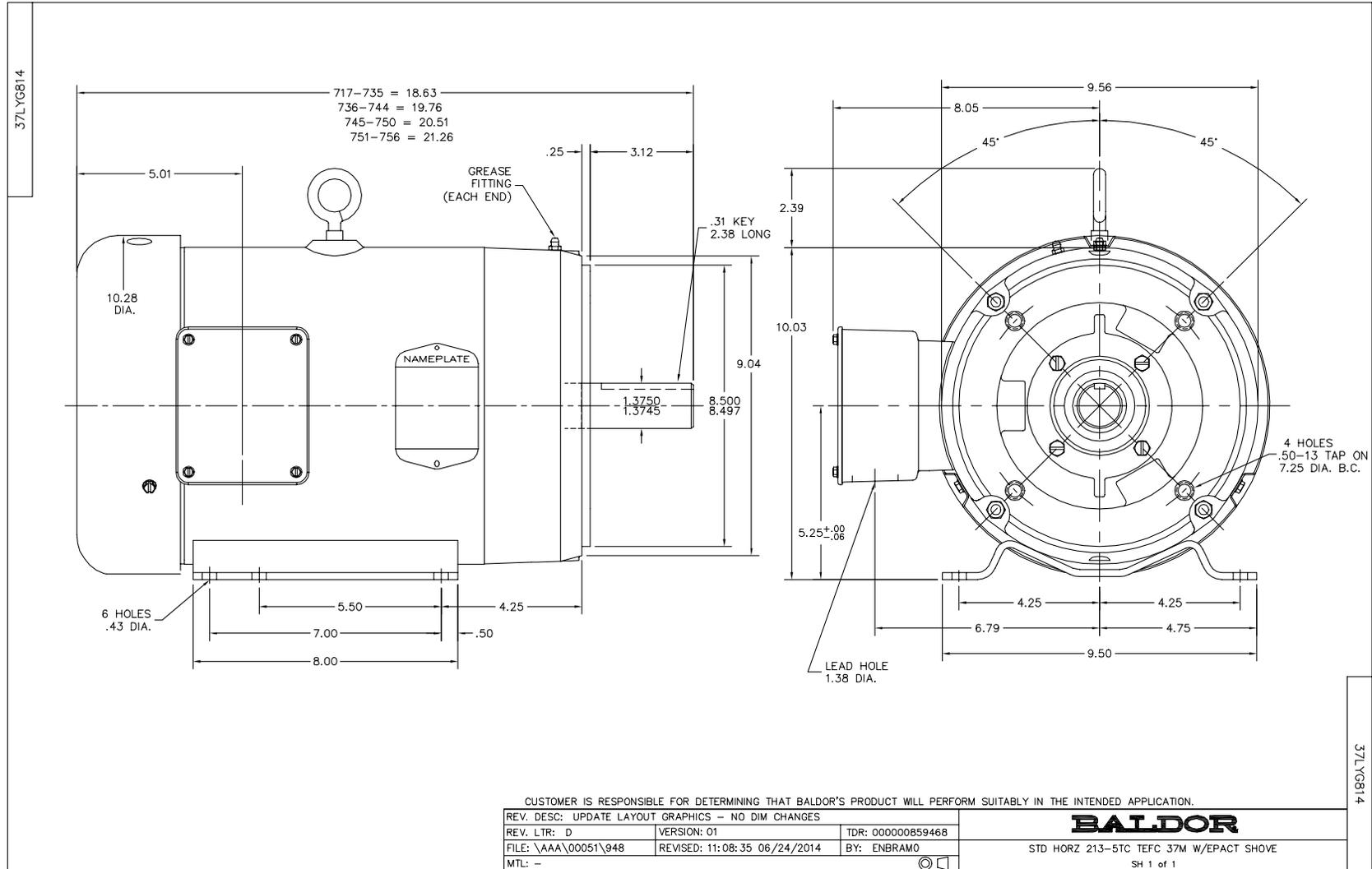
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	10			Full Load Torque	29.45 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	24/12			Breakdown Torque	134 LB-FT
R.P.M.	1770			Pull-up Torque	49.2 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	68.7 LB-FT
NEMA Design Code	A	KVA Code	K	Starting Current	103 A
Service Factor (S.F.)	1.15			No-load Current	5.49 A
NEMA Nom. Eff.	91.7	Power Factor	85	Line-line Res. @ 25°C	0.937 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	63°C
S.F. Amps				Temp. Rise @ S.F. Load	77°C
				Locked-rotor Power Factor	35.5
				Rotor inertia	1.28 LB-FT ²

Load Characteristics 460 V, 60 Hz, 10 HP

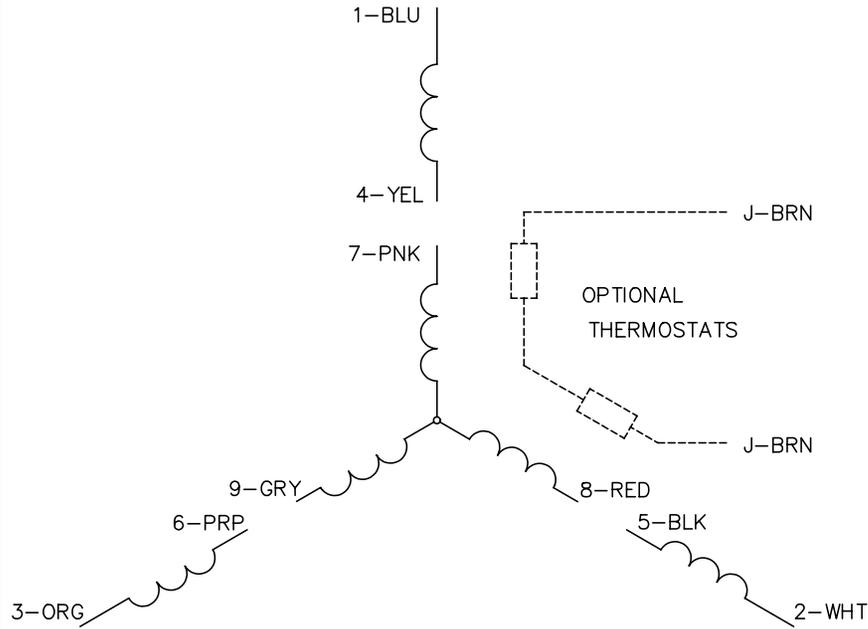
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	76	82	86	88	84
Efficiency	88.6	92.4	92.7	91.8	90.8	88.9	91.2
Speed	1794	1787	1780	1772	1763	1753	1767
Line amperes	6.14	7.8	9.9	12.3	15	17.9	13.9

Performance Graph at 460V, 60Hz, 10.0HP Typical performance - Not guaranteed values

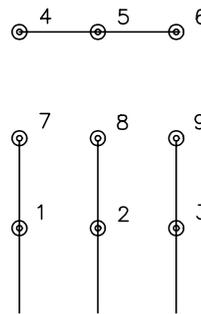




CD0005

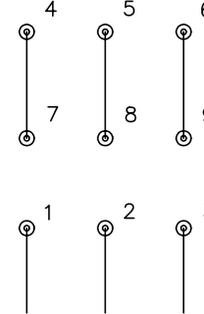


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
90000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005