BALDOR • RELIANCE

Product Information Packet

EM3305T

3HP,1165RPM,3PH,60HZ,213T,3734M,OPSB,F1

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Part Detail

Revision:	U	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	37WGR333	**CD Diagram:**	CD0005	**Mfg Plant:**	
Mech. Spec:	37F614	**Layout:**	37LYF614	**Poles:**	06	**Created Date:**	07-25-2012
Base:	RG	**Eff. Date:**	06-14-2021	**Leads:**	9#14 Y		

Specs

Catalog Number:	EM3305T	**Heater Indicator:**	No Heater
Enclosure:	OPSB	**Insulation Class:**	F
Frame:	213T	**Inverter Code:**	Inverter Ready
Frame Material:	Steel	**KVA Code:**	K
Output @ Frequency:	3.000 HP @ 60 HZ	**Lifting Lugs:**	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	**Locked Bearing Indicator:**	No 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:**	3734M
Agency Approvals:	UR	**Mounting Arrangement:**	F1
	CSA EEV	**Power Factor:**	71
	CSA	**Product Family:**	General Purpose
Auxillary Box:	No Auxillary Box	**Pulley End Bearing Type:**	Ball
Auxillary Box Lead Termination:	None	**Pulley Face Code:**	Standard
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:	4.500 A @ 460.0 V
	9.000 A @ 230.0 V
	9.400 A @ 208.0 V
Design Code:	B
Drip Cover:	No Drip Cover
Duty Rating:	CONT
Electrically Isolated Bearing:	Not Electrically Isolated
Feedback Device:	NO FEEDBACK
Front Face Code:	Standard
Front Shaft Indicator:	None

Shaft Ground Indicator:	No Shaft Grounding
Shaft Rotation:	Reversible
Shaft Slinger Indicator:	No Slinger
Speed Code:	Single Speed
Motor Standards:	NEMA
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 NP1259LUA

CAT.NO.	EM3305T								
SPEC.	37F614R333G1								
HP	3								
VOLTS	230/460								
AMPS	9/4.5								
R.P.M.	1165								
FRAME	213T		**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	K		**DES**	B	**CLASS**	F	
NEMA NOM. EFF.	88.5		**P.F.**	71					
RATING	40C AMB-CONT								
CC	010A					**USABLE AT 208V**	9.4		
DE	6307		**ODE**	6206					
ENCL	OPSB	**SN**							
USABLE AT	50HZ 3HP 190/380V 10.6/5.3A								SF1.0

AC Induction Motor Performance Data
Record # 49691
Typical performance - not guaranteed values

Winding: 37WGR333-R005 **Type:** 3734M **Enclosure:** OPSB

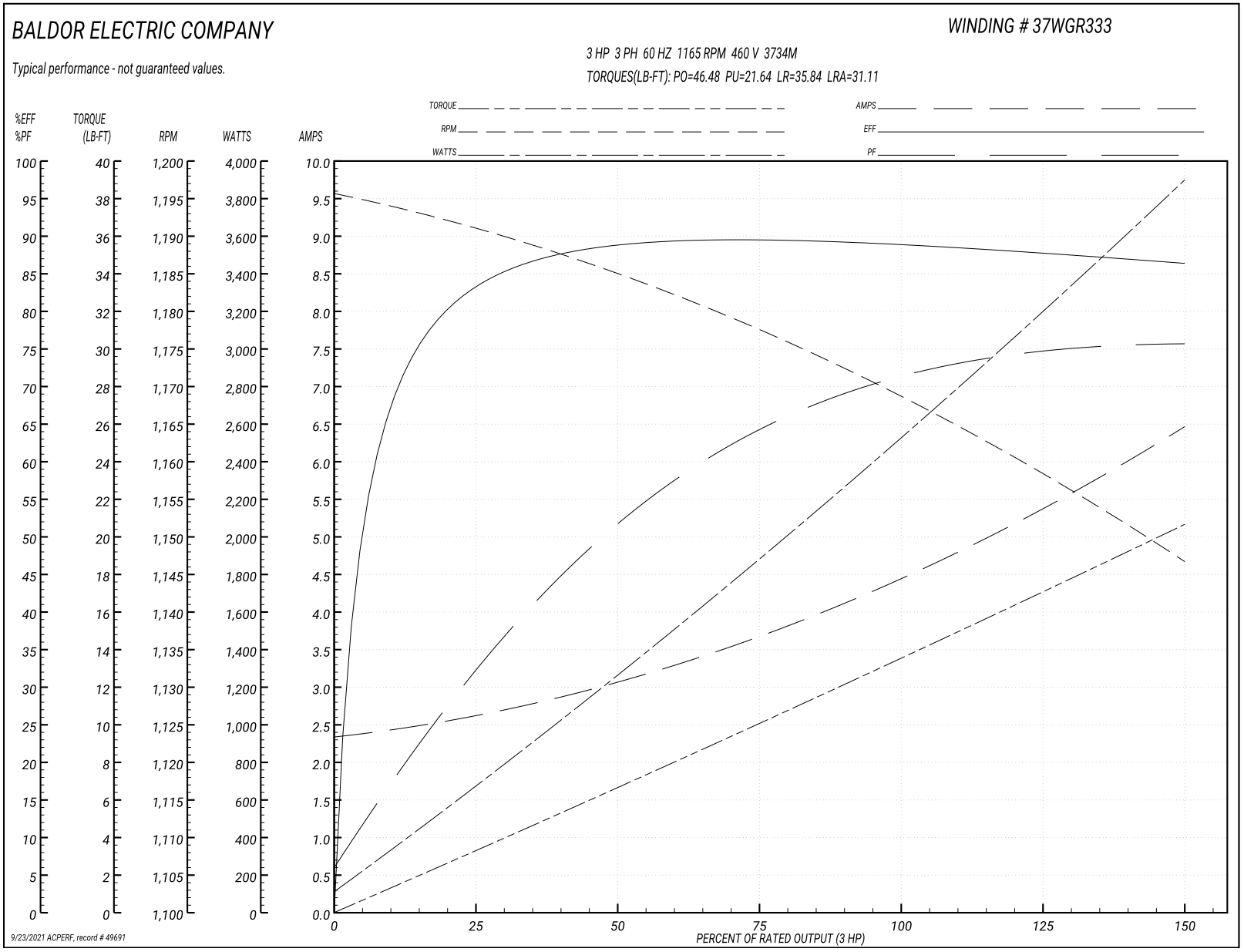
Nameplate Data		
Rated Output (HP)		3
Volts		230/460
Full Load Amps		9/4.5
R.P.M.		1165
Hz	60 **Phase**	3
NEMA Design Code	B **KVA Code**	K
Service Factor (S.F.)		1.15
NEMA Nom. Eff.	88.5 **Power Factor**	71
Rating - Duty		40C AMB-CONT
S.F. Amps		

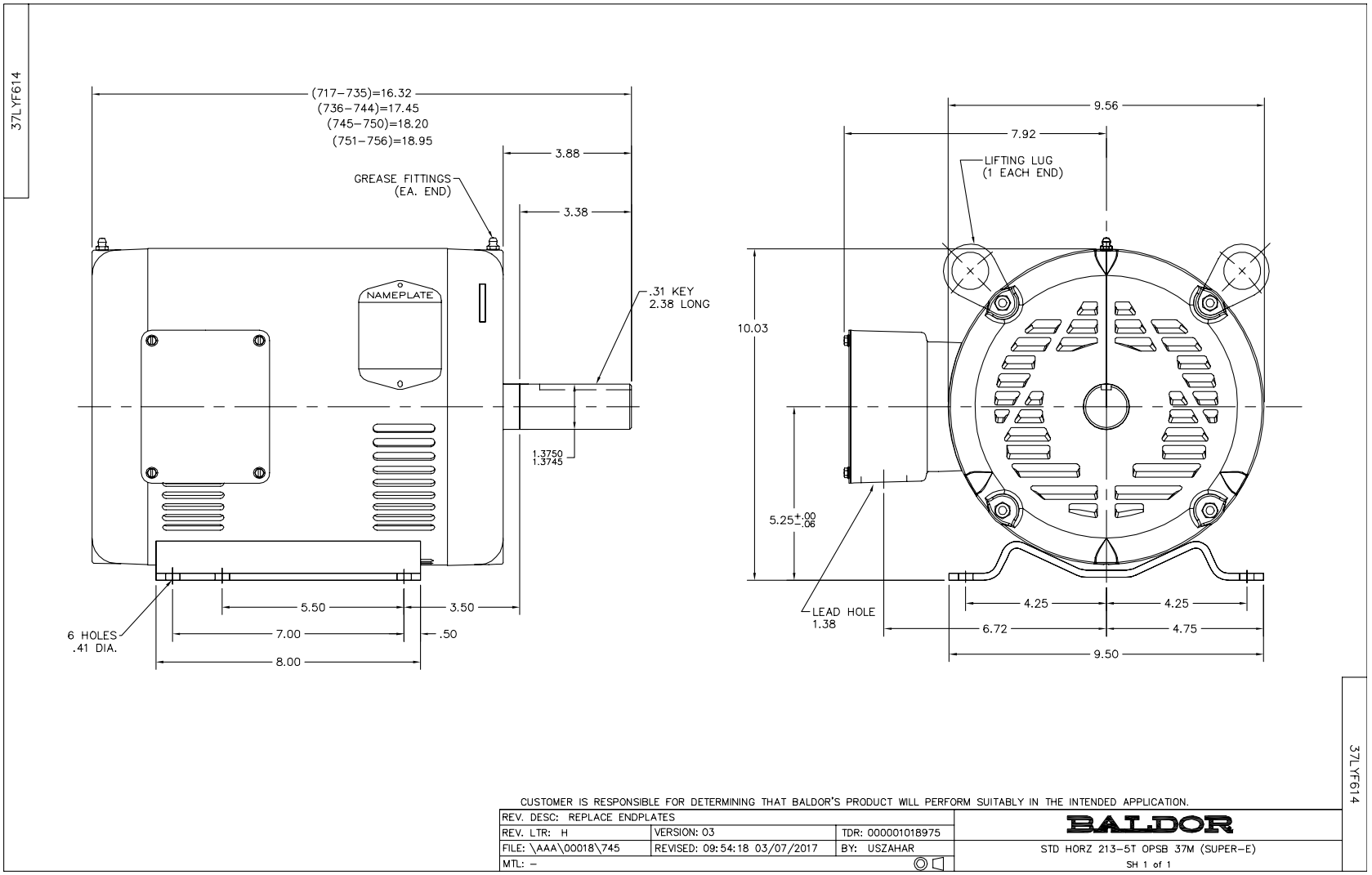
460 V, 60 Hz: High Voltage Connection	
Full Load Torque	13.59 LB-FT
Start Configuration	direct on line
Breakdown Torque	46.48 LB-FT
Pull-up Torque	21.64 LB-FT
Locked-rotor Torque	35.84 LB-FT
Starting Current	31.11 A
No-load Current	2.38 A
Line-line Res. @ 25ºC	3.48 Ω
Temp. Rise @ Rated Load	20°C
Temp. Rise @ S.F. Load	24°C
Locked-rotor Power Factor	25.2
Rotor inertia	0.846 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

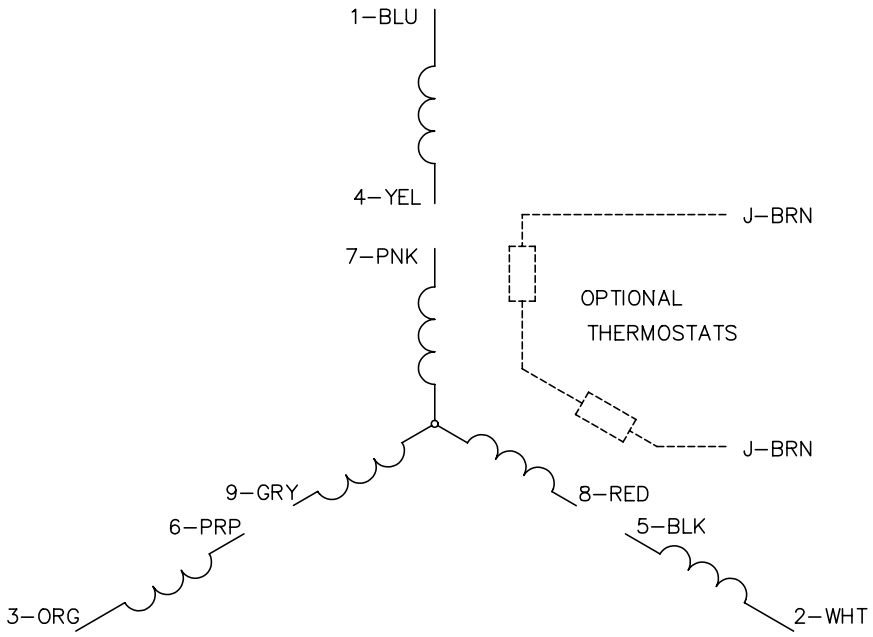
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	53	64	71	74	76	73
Efficiency	82.9	88.4	89.4	88.9	88	86.1	88.4
Speed	1192	1185	1177	1168	1158	1147	1161
Line amperes	2.57	3.06	3.73	4.49	5.41	6.45	5.04

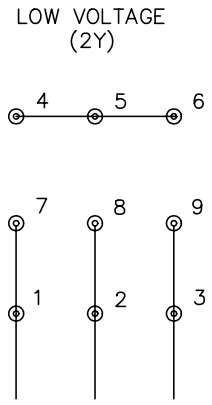
Performance Graph at 460V, 60Hz, 3.0HP Typical performance - Not guaranteed values

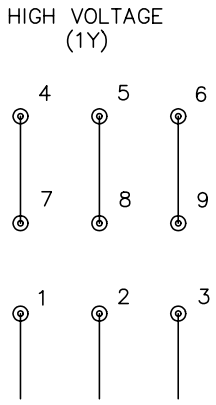



37LYF614
(717-735)=16.32
(736-744)=17.45
(745-750)=18.20
(751-756)=18.95
3.88
GREASE FITTINGS
(EA. END)
3.38
NAMEPLATE
.31 KEY
2.38 LONG
1.3750
1.3745
5.50
3.50
6 HOLES
.41 DIA.
7.00
.50
8.00
9.56
7.92
LIFTING LUG
(1 EACH END)
10.03
5.25 +.00 -.06
LEAD HOLE
1.38
4.25
4.25
6.72
4.75
9.50
37LYF614
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: REPLACE ENDPLATES
REV. LTR: H
VERSION: 03
TDR: 000001018975
FILE: \AAA\00018\745
REVISED: 09:54:18 03/07/2017
BY: USZAHAR
MTL: –
BALDOR
STD HORZ 213-5T OPSB 37M (SUPER-E)
SH 1 of 1

CD0005







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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS