



Product Information Packet

EM3711T

10HP,3490RPM,3PH,60HZ,215T,3728M,TEFC,F1

Part Detail							
Revision:	R	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	37WGS864	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	37H244	Layout:	37LYH244	Poles:	02	Created Date:	01-03-2011
Base:	RG	Eff. Date:	08-15-2022	Leads:	9#14		

Specs			
Catalog Number:	EM3711T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	215T	Inverter Code:	Inverter Duty
Frame Material:	Steel	KVA Code:	G
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	10.000 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 14 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3730M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	88
	CSA EEV	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT

Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	24.900 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding
	23.200 A @ 230.0 V	Shaft Rotation:	Reversible
	11.600 A @ 460.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	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.	EM3711T											
SPEC	37H244S864G2											
HP	10											
VOLTS	230/460											
AMPS	23.2/11.6											
RPM	3490											
FRAME	215T					HZ	60				PH	3
SF	1.15				CODE	G		DES	B		CLASS	F
NEMA NOM. EFF	90.2					PF	88					
RATING	40C AMB-CONT											
CC	010A					USABLE AT 208V					24.9	
ENCL	TEFC				SER							
DE	6307					ODE	6206					
VPWM INVERTER READY												
CT6-60H(10:1)VT3-60H(20:1												
	50Hz 10HP 190/380V 28.2/14.1A											
	SF1.0											

AC Induction Motor Performance Data

Record # 53399

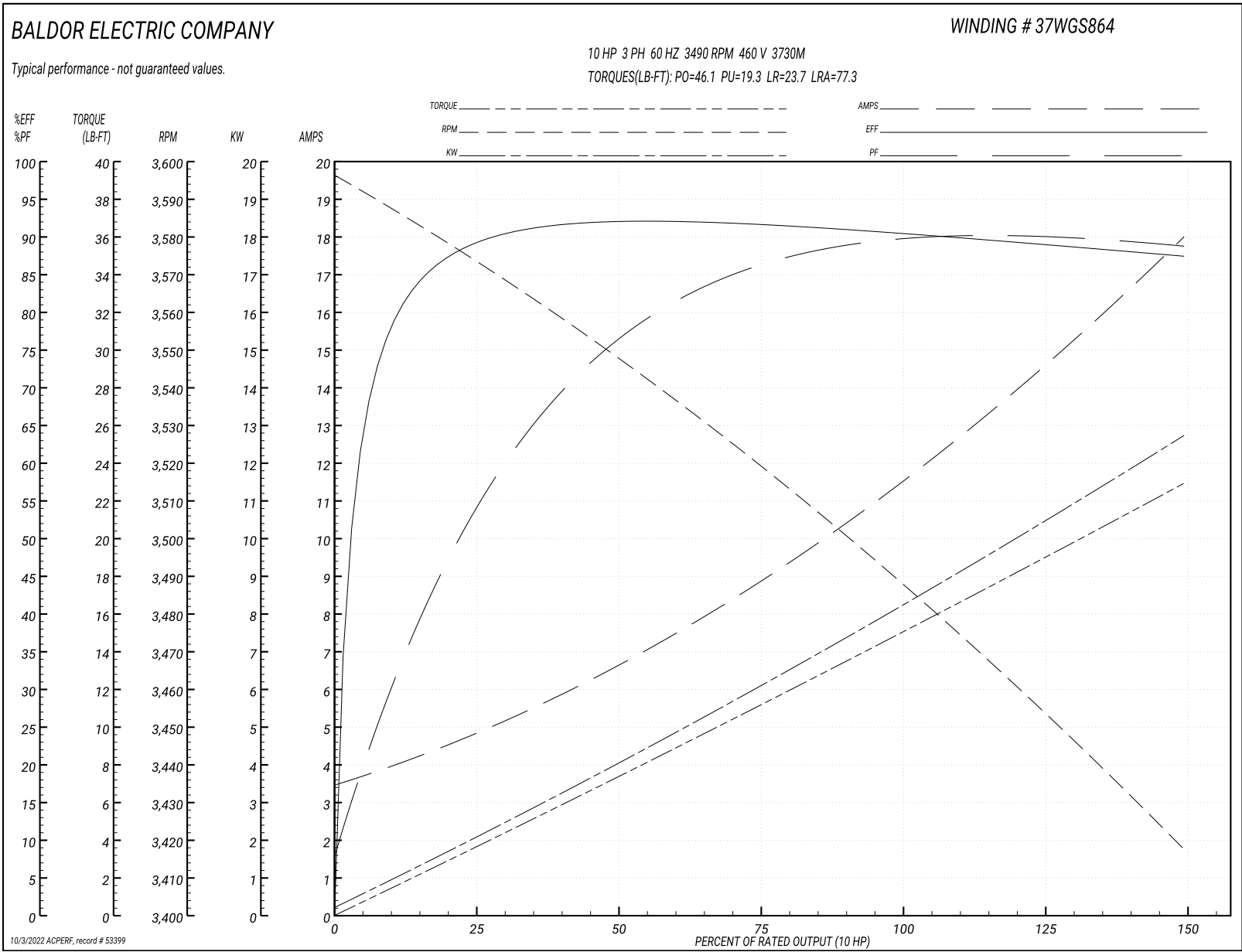
Typical performance - not guaranteed values

Winding: 37WGS864-R028			Type: 3730M	Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10	Full Load Torque		14.94 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		23.2/11.6	Breakdown Torque		46.1 LB-FT		
R.P.M.		3490	Pull-up Torque		19.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		23.7 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		77.3 A
Service Factor (S.F.)		1.15	No-load Current		3.66 A		
NEMA Nom. Eff.		90.2	Power Factor	88	Line-line Res. @ 25°C		1.05 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		78°C
S.F. Amps			Temp. Rise @ S.F. Load		97°C		
			Locked-rotor Power Factor		33.7		
			Rotor inertia		0.273 LB-FT2		

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	78	85	88	90	89	88
Efficiency	88.6	91.7	91.6	90.6	89.1	87.3	90
Speed	3573	3548	3520	3489	3455	3417	3464
Line amperes	4.56	6.49	8.9	11.6	14.6	17.9	13.5

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



AC Induction Motor Performance Data

Record # 59174

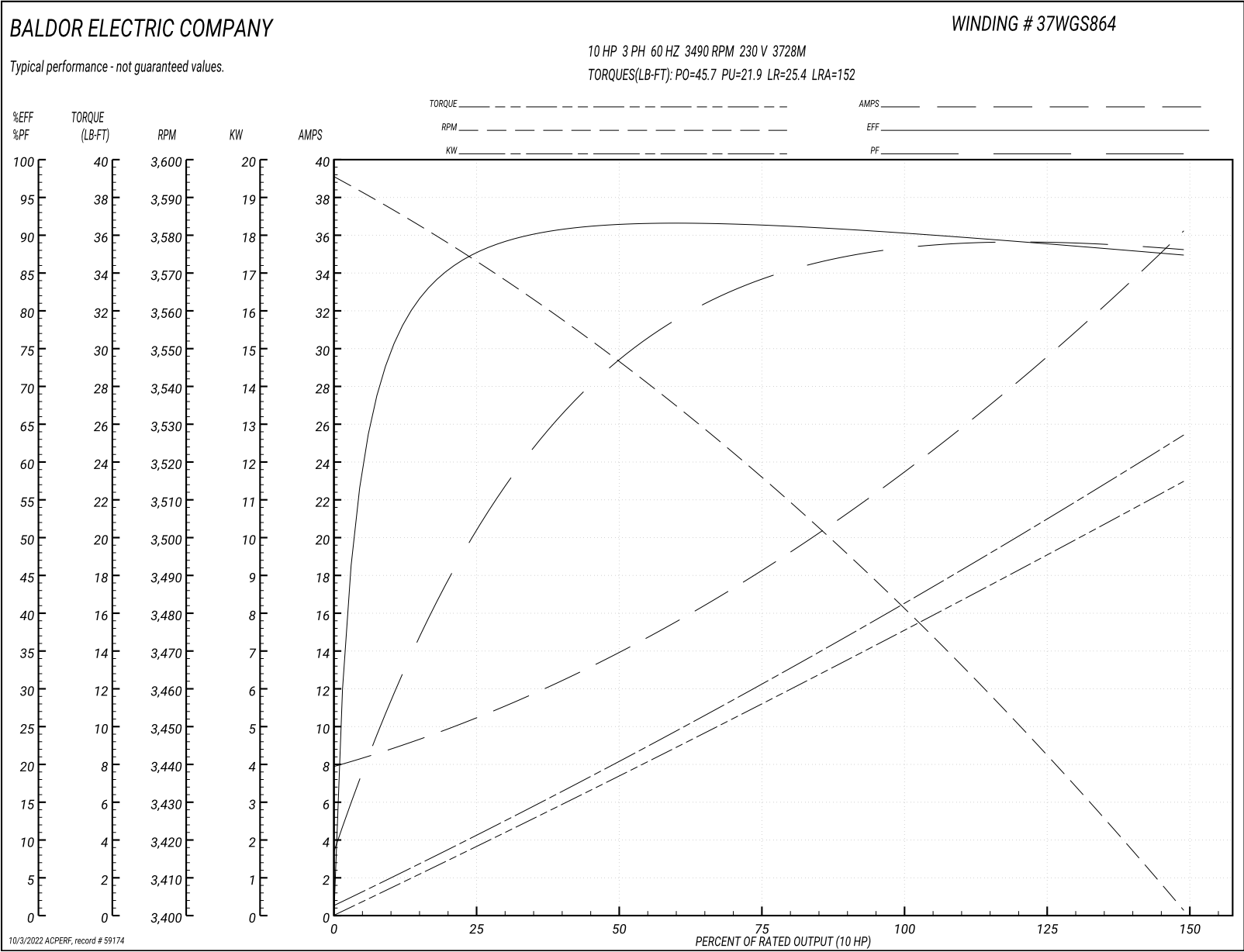
Typical performance - not guaranteed values

Winding: 37WGS864-R028			Type: 3728M		Enclosure: TEFC		
Nameplate Data				230 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		10		Full Load Torque		15 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		23.6/11.8		Breakdown Torque		45.7 LB-FT	
R.P.M.		3490		Pull-up Torque		21.9 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		25.4 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		152 A
Service Factor (S.F.)		1.15		No-load Current		8.25 A	
NEMA Nom. Eff.		90.2	Power Factor	87	Line-line Res. @ 25°C		0.248 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		79°C	
S.F. Amps				Temp. Rise @ S.F. Load		98°C	
				Locked-rotor Power Factor		33.1	
				Rotor inertia		0.255 LB-FT2	

Load Characteristics 230 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	74	84	87	88	89	88
Efficiency	86.7	91	91.4	90.6	89.1	87.3	90
Speed	3575	3547	3516	3482	3445	3401	3464
Line amperes	9.88	13.7	18.2	23.6	29.5	36	27.1

Performance Graph at 230V, 60Hz, 10.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 69805

Typical performance - not guaranteed values

Winding: 37WGS864-R028			Type: 3728M		Enclosure: TEFC		
Nameplate Data				480 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10		Full Load Torque		14.97 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		23.6/11.8		Breakdown Torque		50.07 LB-FT	
R.P.M.		3490		Pull-up Torque		24.32 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		28.21 LB-FT	
NEMA Design Code		B		KVA Code	G	Starting Current	80.47 A
Service Factor (S.F.)		1.15		No-load Current		4.85 A	
NEMA Nom. Eff.		90.2	Power Factor	87	Line-line Res. @ 25°C		0.991 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	78°C
S.F. Amps						Temp. Rise @ S.F. Load	97°C
						Locked-rotor Power Factor	33.1
						Rotor inertia	0.255 LB-FT2

Load Characteristics 480 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	67	78	83	86	87	85
Efficiency	85.9	90.5	91.2	90.5	89.3	87.6	89.8
Speed	3577	3550	3521	3489	3454	3414	3468
Line amperes	5.56	7.29	9.34	11.81	14.5	17.52	13.4

Performance Graph at 480V, 60Hz, 10.0HP Typical performance - Not guaranteed values

