

BALDOR • RELIANCE

Customer information packet

EFM3711T

10HP, 3490RPM, 3PH, 60HZ, 215T, 3728M, TEFC, F2

Class - None

Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA CSA EEV 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	23.600 A @ 230.0 V 24.900 A @ 208.0 V 11.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part detail

Revision	L
Type	AC
Mech. spec.	37A006
Base	
Status	PRD/A
Elec. spec.	37WGS864
Layout	37LYA006
Eff. date	09-06-2019
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	04-22-2013

Heater Indicator	No Heater
High Voltage Full Load Amps	11.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No 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	3728M
Mounting Arrangement	F2
Number of Poles	2
Overall Length	17.91 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	3490 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									
CAT.NO.	EFM3711T								
SPEC.	37A006S864G1								
HP	10								
VOLTS	230/460								
AMP	23.2/11.6								
RPM	3490								
FRAME	215T		HZ	60		PH	3		
SER.F.	1.15	CODE	G	DES	B	CL	F		
NEMA-NOM-EFF	90.2	PF	88						
RATING	40C AMB-CONT								
CC	010A		USABLE AT 208V				24.9		
DE	6307		ODE	6206					
ENCL	TEFC	SN							
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									

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-FT ²	

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

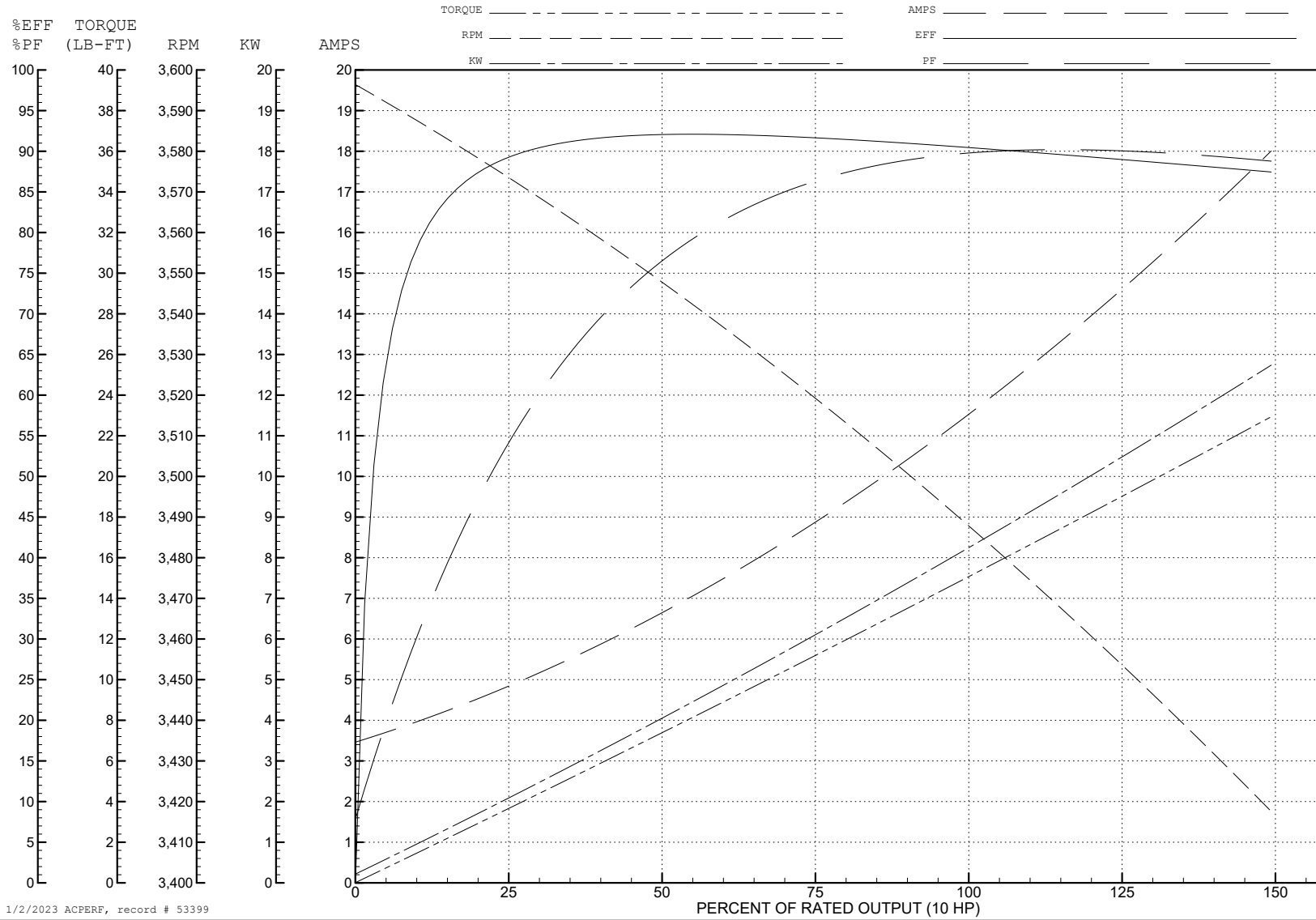
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WINDING # 37WGS864

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3490 RPM 460 V 3730M

TORQUES (LB-FT): PO=46.1 PU=19.3 LR=23.7 LRA=77.3



1/2/2023 ACPERF, record # 53399

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-FT ²	

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

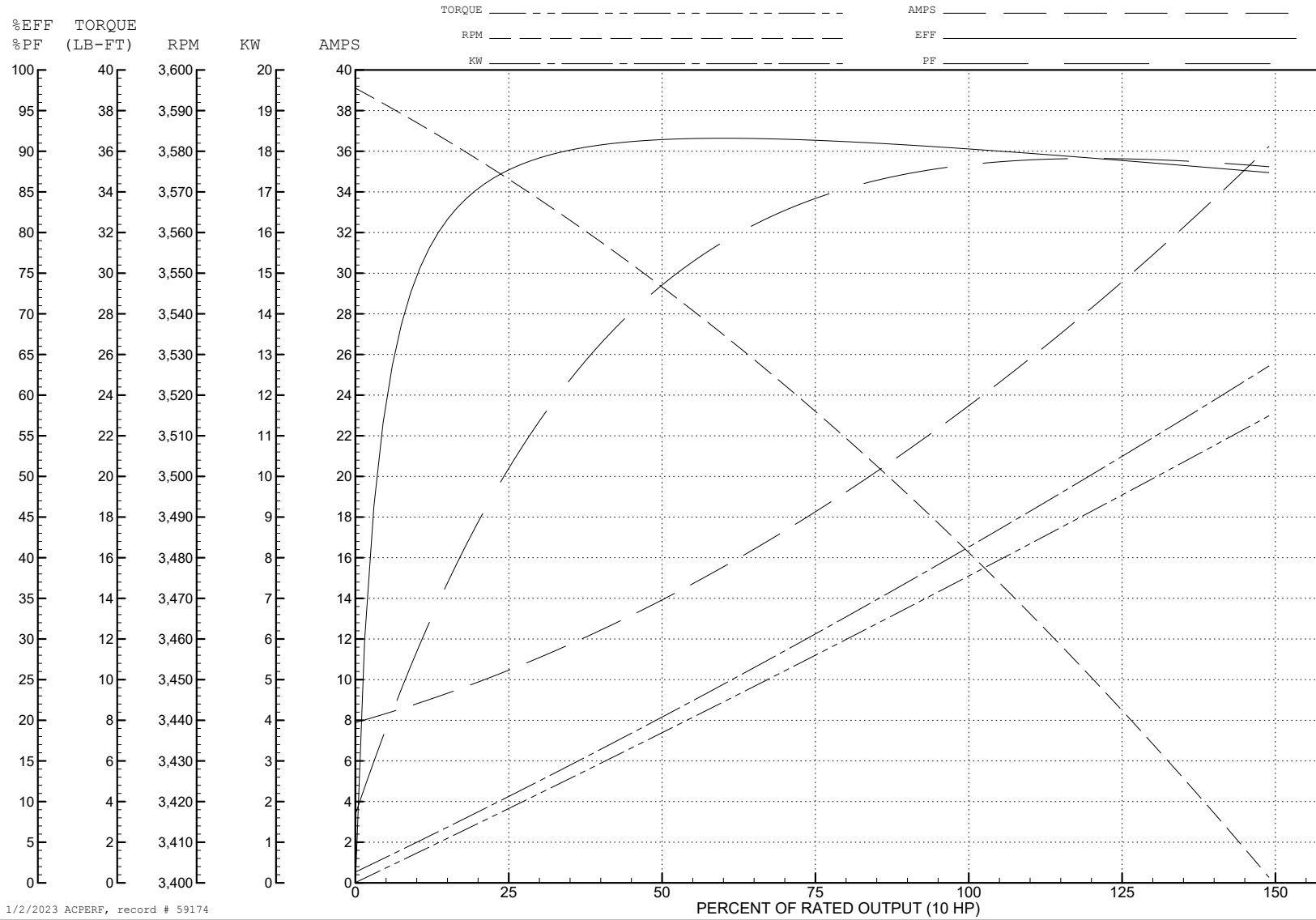
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WINDING # 37WGS864

10 HP 3 PH 60 HZ 3490 RPM 230 V 3728M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=45.7 PU=21.9 LR=25.4 LRA=152



1/2/2023 ACPERF, record # 59174

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	Locked-rotor Torque	28.21 LB-FT		
NEMA Design Code	B	Starting Current	80.47 A		
Service Factor (S.F.)	1.15	No-load Current	4.85 A		
NEMA Nom. Eff.	90.2	Line-line Res. @ 25°C	0.991 Ω		
Rating - Duty	40C	Temp. Rise @ Rated Load	78°C		
S.F. Amps	AMB-CONT	Temp. Rise @ S.F. Load	97°C		
		Locked-rotor Power Factor	33.1		
		Rotor inertia	0.255 LB-FT ²		

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

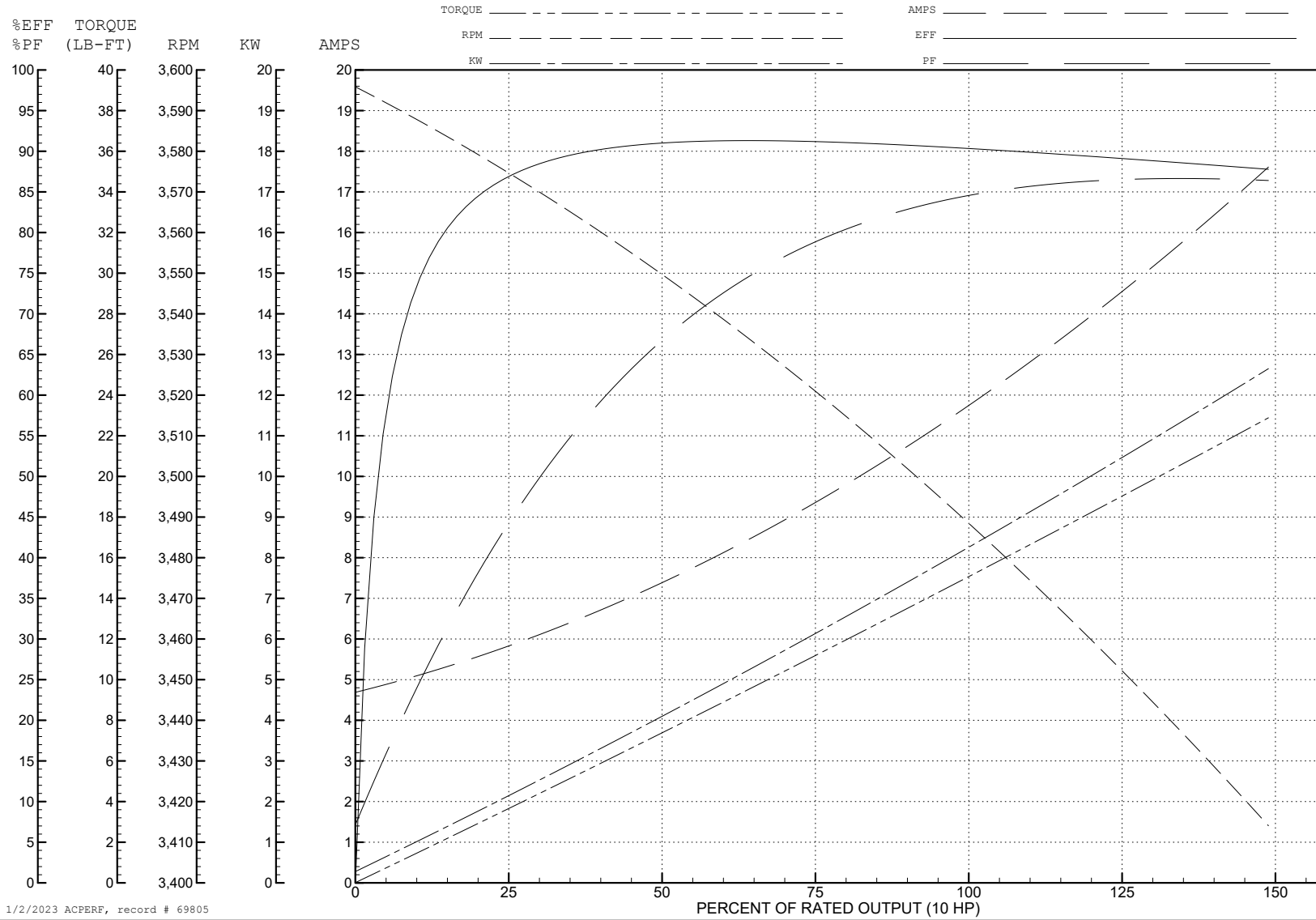
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WINDING # 37WGS864

Typical performance - not guaranteed values.

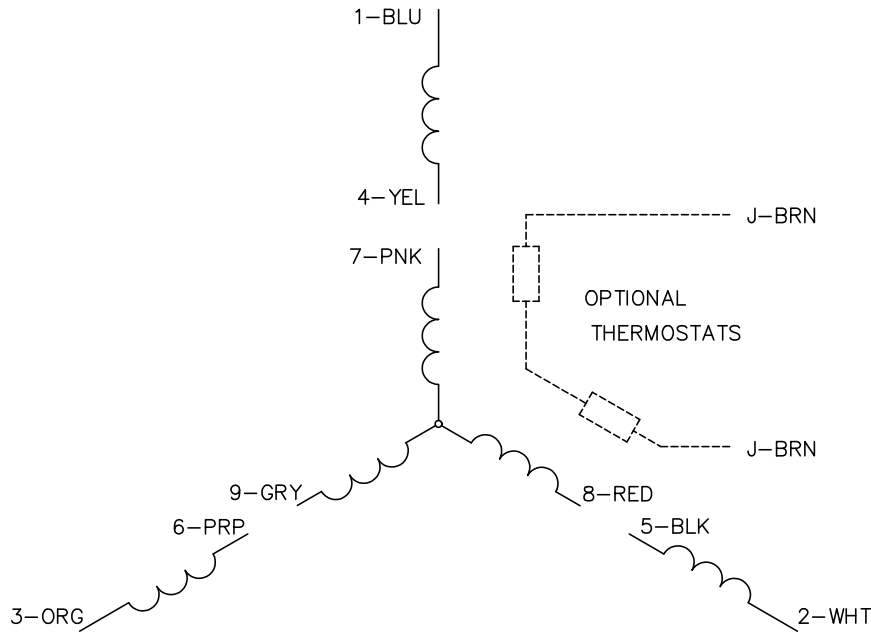
10 HP 3 PH 60 HZ 3490 RPM 480 V 3728M

TORQUES (LB-FT): PO=50.07 PU=24.32 LR=28.21 LRA=80.47

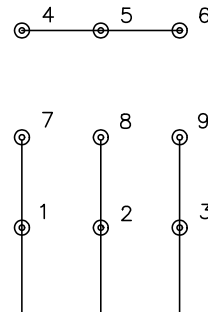


1/2/2023 ACPERF, record # 69805

CD0005

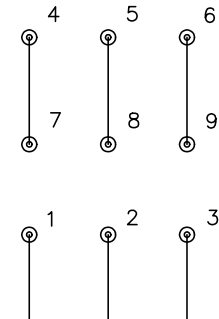


LOW VOLTAGE
(2Y)



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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS