



Customer information packet

EM3711T

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
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	10.000 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	23.200 A @ 230.0 V 24.900 A @ 208.0 V 11.600 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

Part detail

Revision	T
Type	AC
Mech. spec.	37H244
Base	
Status	PRD/A
Elec. spec.	37WGS864
Layout	37LYH244
Eff. date	05-02-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	01-03-2011

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	11.6 a
Insulation Class	F
Inverter Code	Inverter Duty
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	3730M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.89 IN
Power Factor	88
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

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										
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										

Accessories

Part number	Description	Multiplier
37-1304	C FACE KIT	A8

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

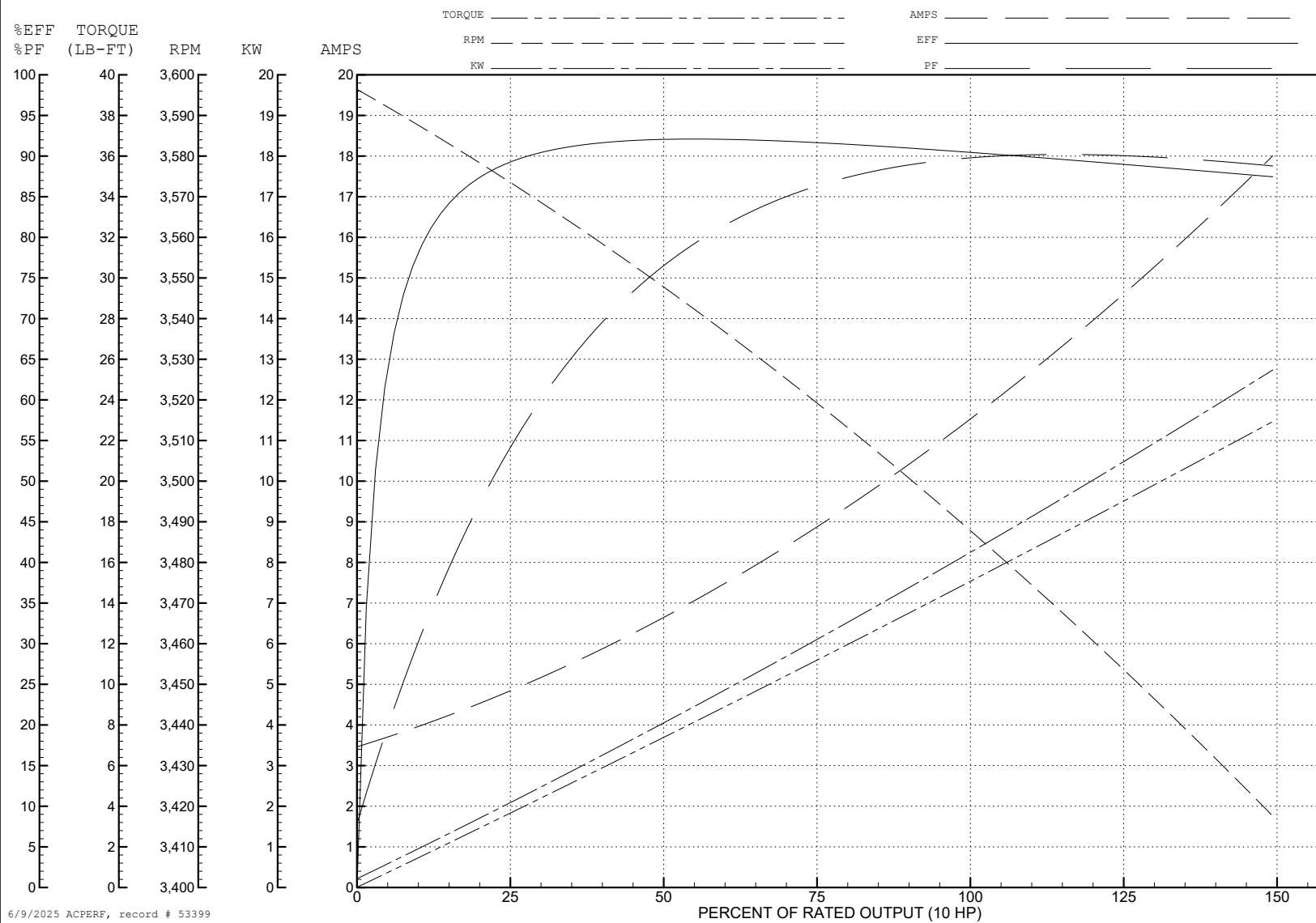
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WINDING # 37WGS864

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



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

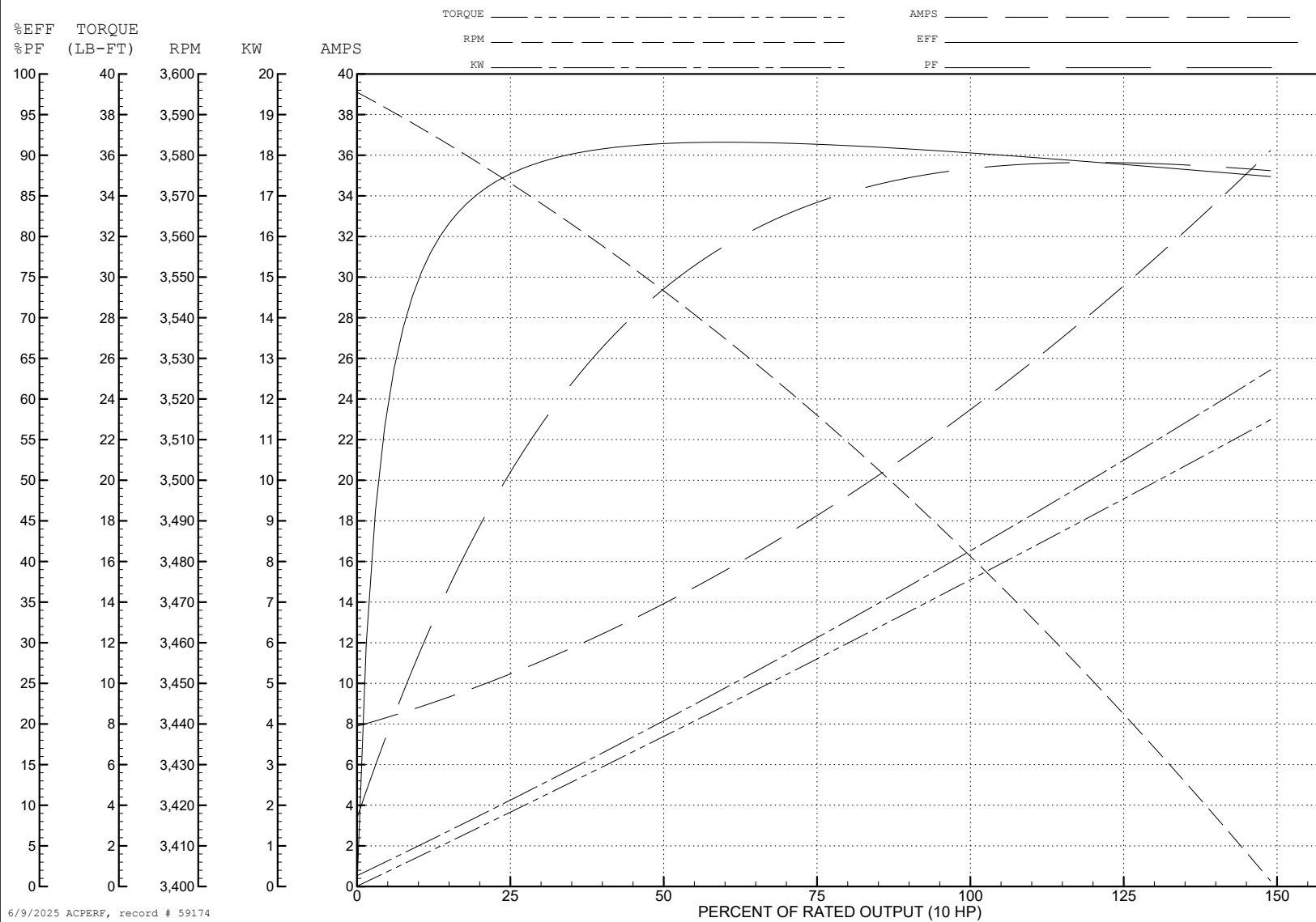
ABB Motors and Mechanical Inc.

WINDING # 37WGS864

Typical performance - not guaranteed values.

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

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



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

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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

