



Customer information packet

EJMM3711T

10HP, 3490RPM, 3PH, 60HZ, 215JM, 3728M, TEFC, F

PFC EQUIPMENT

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215JM
Frame Material	Steel
Frequency	60.00 Hz
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	11.800 A @ 460.0 V 23.600 A @ 230.0 V 24.900 A @ 208.0 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
Heater Indicator	No Heater

Part detail

Revision	Q
Type	AC
Mech. spec.	37M031
Base	
Status	PRD/A
Elec. spec.	37WGS864
Layout	37LYM031
Eff. date	12-02-2020
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	01-03-2011

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	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	F1
Number of Poles	2
Overall Length	19.76 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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.	EJMM3711T								
SPEC	37M031S864G1								
HP	10								
VOLTS	230/460								
AMPS	23.2/11.6								
RPM	3490								
FRAME	215JM		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	6309		ODE	6206					
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
	50Hz 10HP 190/380V 28.2/14.1A							SF1.0	

Parts list

Part number	Description	Quantity
SA214701	SA 37M031S864G1	1.000 ea
RA201903	RA 37M031S864G1	1.000 ea
36FN3000C02SP	EXFN, PLASTIC, 5.25 OD, 1.175 ID	1.000 ea
HW3200A01	3/8-16X3/4 I-BLT WELDED F/S	1.000 ea
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 ea
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37EP3101A29	FR ENDPLATE, FOR ROUTING PURPOSES	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37PE3401T11	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A36	1/4-20X 2 1/4 HEX HD X	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
07FH4007SP	PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
HW4600A73	SLINGER 1.748 X 2.375 X 0.250 FACE SEAL	1.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
37GS1008	37 GS FOR CB LID - LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 lb
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
HA3104A14	THRUBOLT- 5/16-18 X12.125(OHIO)	4.000 ea

MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.028 ga
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 ea
NP3441LUA	ALUM SUPER-E VPWM INV READY UL CSA-EEV C	1.000 ea
GOPA1000	PKG GRP, PRINT PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 1/21	1.000 ea

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

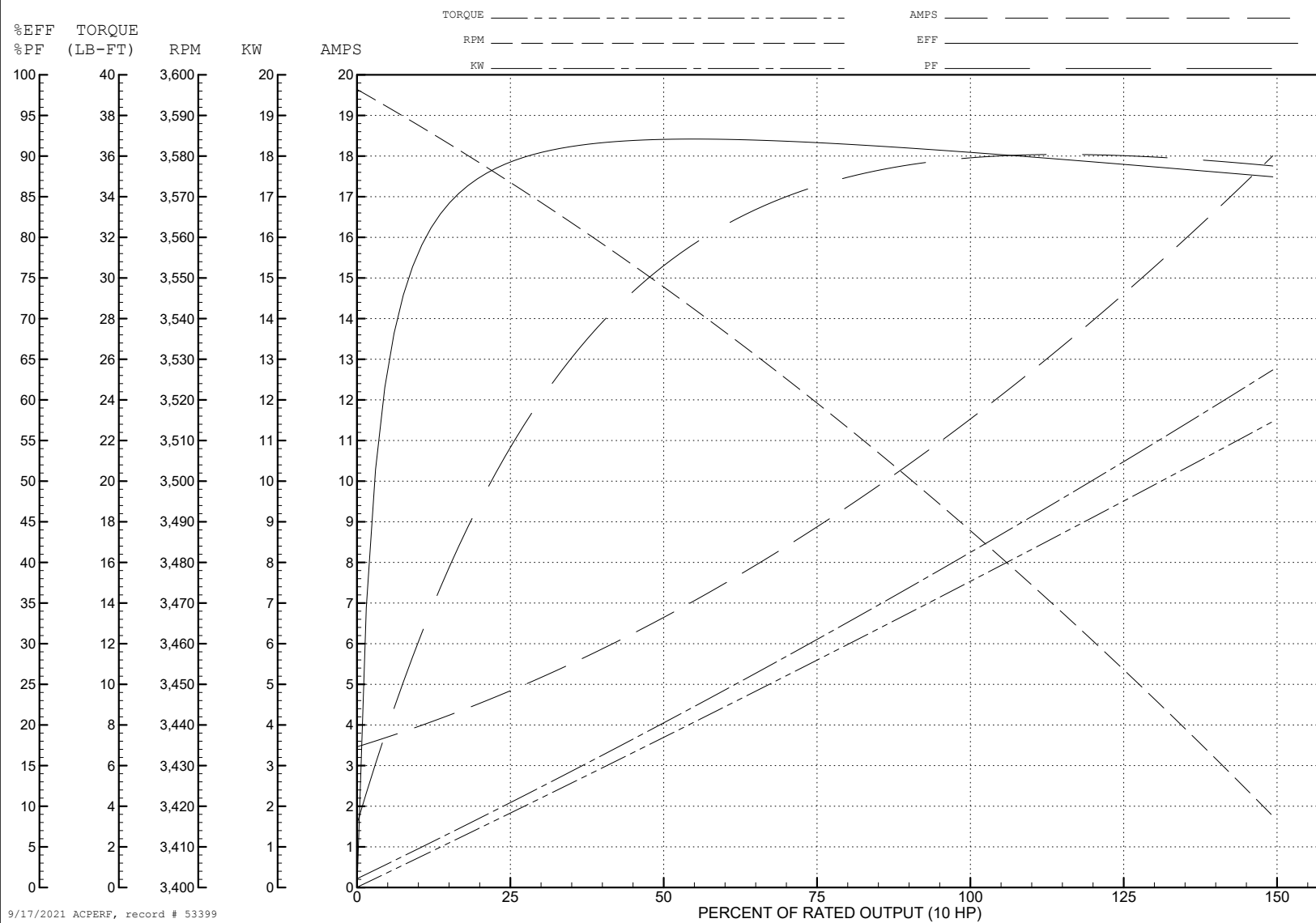
ABB Motors and Mechanical Inc.

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

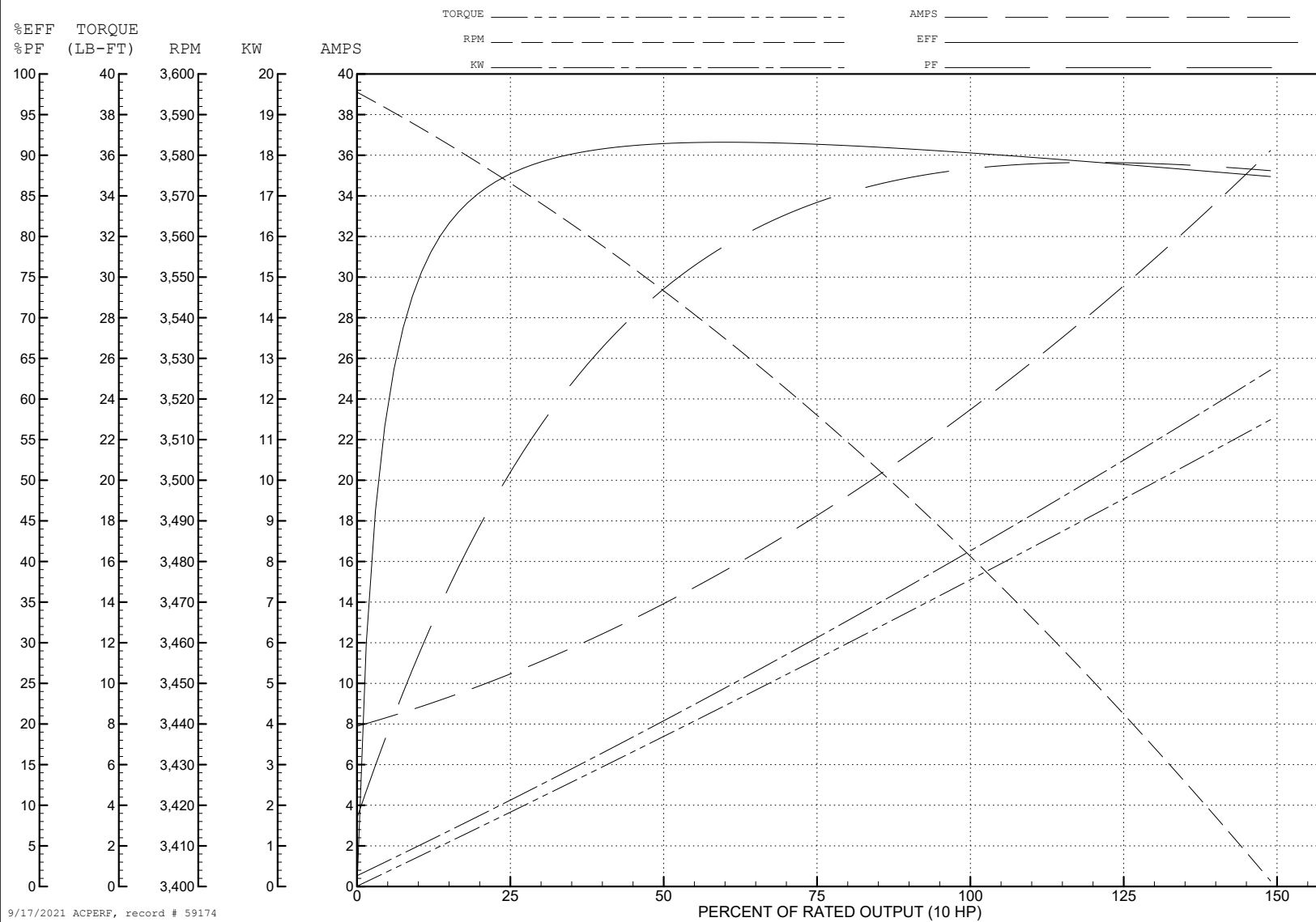
ABB Motors and Mechanical Inc.

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

ABB Motors and Mechanical Inc.

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

