

ABB BALDOR RELIANCE III

Customer information packet

L3711T

10HP, 3450RPM, 1PH, 60HZ, 215T, 3744LC, TEFC, F

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	Cap Start, Cap Run
Output @ Frequency	10.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	40.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	40.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H

Part Detail

Revision	L
Type	AC
Mech. spec.	37M230
Base	
Status	PRD/A
Elec. spec.	37GW578
Layout	37LYM230
Eff. date	05-13-2024
CD Diagram	CD0086
Poles	02
Leads	2#10 A PH,2#14 B PH
Proprietary	False
Created date	02-09-2010

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.02 IN
Power Factor	98
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
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	3450 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

NP1256L									
CAT.NO.	L3711T								
SPEC.	37M230W578								
HP	10								
VOLTS	230								
AMP	40								
RPM	3450								
FRAME	215T		HZ	60			PH	1	
SER.F.	1.00	CODE	H	DES	L	CLASS		F	
NEMA-NOM-EFF	82	PF	98						
RATING	40C AMB-CONT								
CC									
DE	6307		ODE	6206					
ENCL	TEFC	SN							

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data

Record # 11882

Typical performance - not guaranteed values

Winding: 37WGW578-R001			Type: 3744LC		Enclosure: TEFC			
Nameplate Data			230 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		10	Full Load Torque		15 LB-FT			
Volts		230	Start Configuration		direct on line			
Full Load Amps		40	Breakdown Torque		44 LB-FT			
R.P.M.		3450	Pull-up Torque		33 LB-FT			
Hz	60	Phase	1	Locked-rotor Torque		42 LB-FT		
NEMA Design Code		L	KVA Code	H	Starting Current		284 A	
Service Factor (S.F.)		1	No-load Current		4.3 A			
NEMA Nom. Eff.		82	Power Factor		98	Line-line Res. @ 25°C		0.174 Ω A Ph 0.681 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		102°C		

Load Characteristics 230 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	99	99	99	99	98	97
Efficiency	66.6	78.9	82.9	83.9	83.4	81.8
Speed	3573	3551	3527	3500	3469	3431
Line amperes	12.2	20.6	29.5	39	49.4	61.1

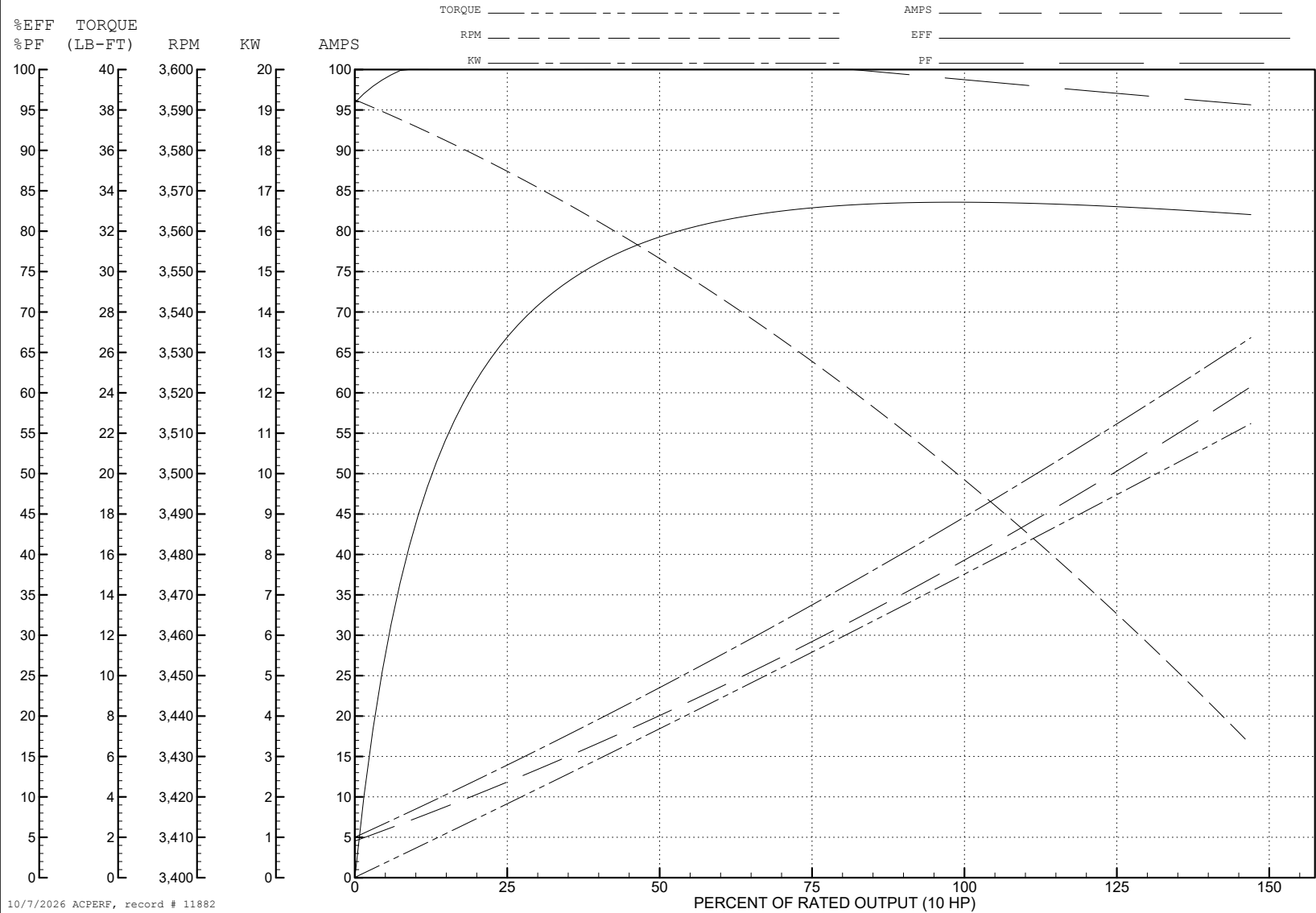
ABB Motors and Mechanical Inc.

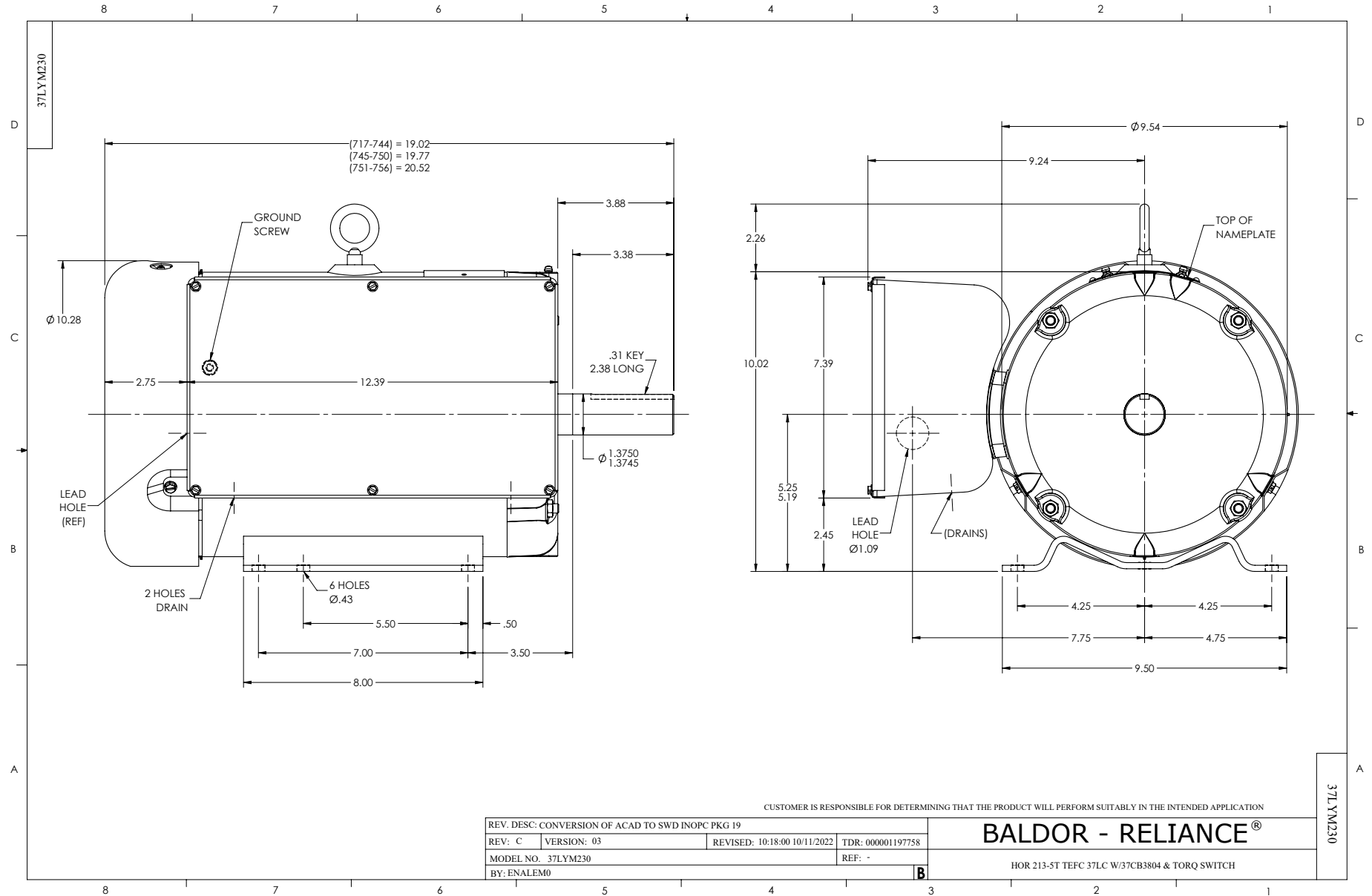
WINDING # 37WGW578

Typical performance - not guaranteed values.

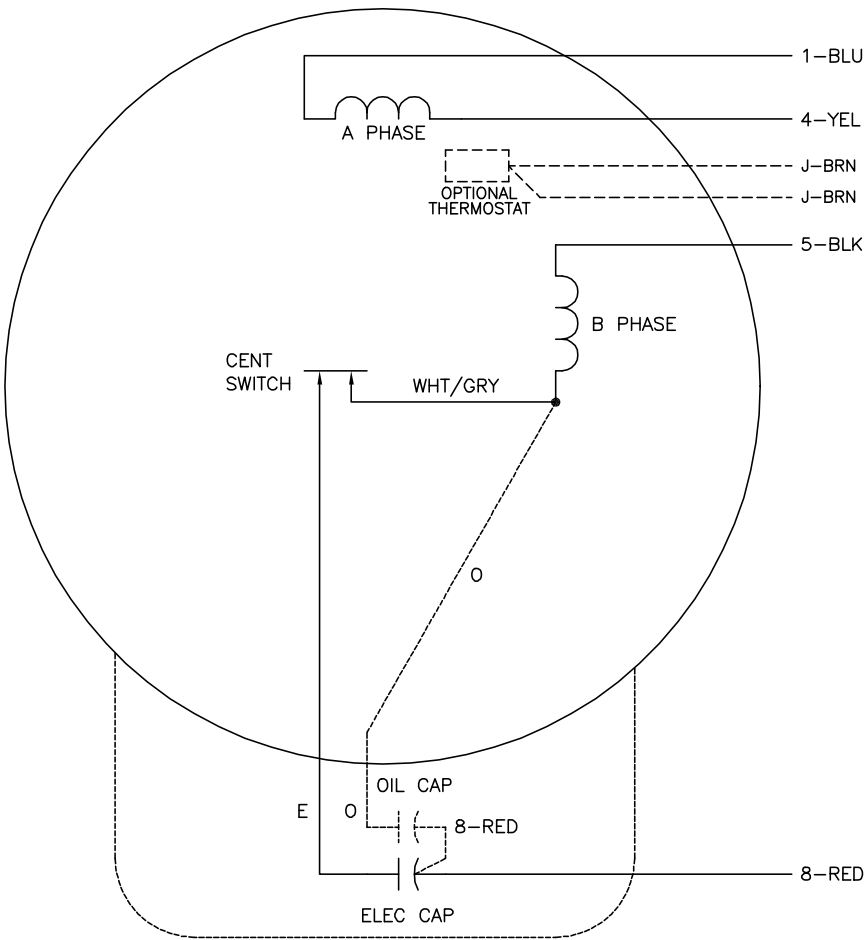
10 HP 1 PH 60 HZ 3450 RPM 230 V 3744LC

TORQUES (LB-FT) : PO=44 PU=33 LR=42 LRA=284





CD0086



	LINE A	LINE B
STD	1,8	4,5
OPP	1,5	4,8

- NOTES:
- 1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 - 2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
 - 3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 - 4. OPTIONAL OIL CAPACITOR IS PROVIDED WHEN SPECIFIED.
 - 5. CAPACITORS MAY BE SEPERATELY MOUNTED.
 - 6. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED CK TO PLANT CODE			
REV. LTR: F	BY: JD	REVISED: 16:01:12 01/07/2002	TDR: 259409
980000		FILE: AAA00026904	REF: CD0086
		MTL: -	

BALDOR ELECTRIC Co.

TYPE L OR LC, SV, REV, 4 LEADS, CAPS MAY BE SEP MTD

CD0086