

BALDOR • RELIANCE

Customer information packet

EM233T

15HP, 1765RPM, 3PH, 60HZ, 254T, 0944M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV 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	38.000 A @ 208.0 V 36.200 A @ 230.0 V 18.100 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part detail

Revision	K
Type	AC
Mech. spec.	09P11
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYP011
Eff. date	03-19-2024
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	11-11-2020

Heater Indicator	No Heater
High Voltage Full Load Amps	18.1 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.36 IN
Power Factor	84
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	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 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.	EM2333T						
SPEC	09P011T597G1						
HP	15						
VOLTS	230/460						
AMPS	36.2/18.1						
RPM	1765						
FRAME	254T		HZ	60		PH	3
SF	1.15	CODE	H	DES	A	CLASS	F
NEMA NOM. EFF	92.4	PF	84				
RATING	40C AMB-CONT						
CC	010A						
ENCL	TEFC	SER					
DE	6309	ODE	6208				
VPWM INVERTER READY	SFA 41/20.4						
CT6-60H(10:1)VT3-60H(20:1)	50HZ 15HP 190/380V 42.2/21.1A						SF1.0

Accessories

Part number	Description	Multiplier
09-1309	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 93306

Typical performance - not guaranteed values

Winding: 09WGT597-R001		Type: 0944M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	15	Full Load Torque	44.59 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	36.2/18.1	Breakdown Torque	151 LB-FT		
R.P.M.	1765	Pull-up Torque	76.5 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	84.9 LB-FT	
NEMA Design Code	A KVA Code	H	Starting Current	131 A	
Service Factor (S.F.)	1.15	No-load Current	7.72 A		
NEMA Nom. Eff.	92.4 Power Factor	84	Line-line Res. @ 25°C	0.61892 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	50°C		
S.F. Amps	41/20.4	Temp. Rise @ S.F. Load	61°C		
		Locked-rotor Power Factor	33.3		

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	68	78	83	85	86	84
Efficiency	87.5	91.8	92.6	92.4	91.8	90.8	92
Speed	1791.8	1784.7	1777	1768.8	1759.2	1749.3	1763
Line amperes	8.82	11.3	14.6	18.3	22.4	26.9	20.8

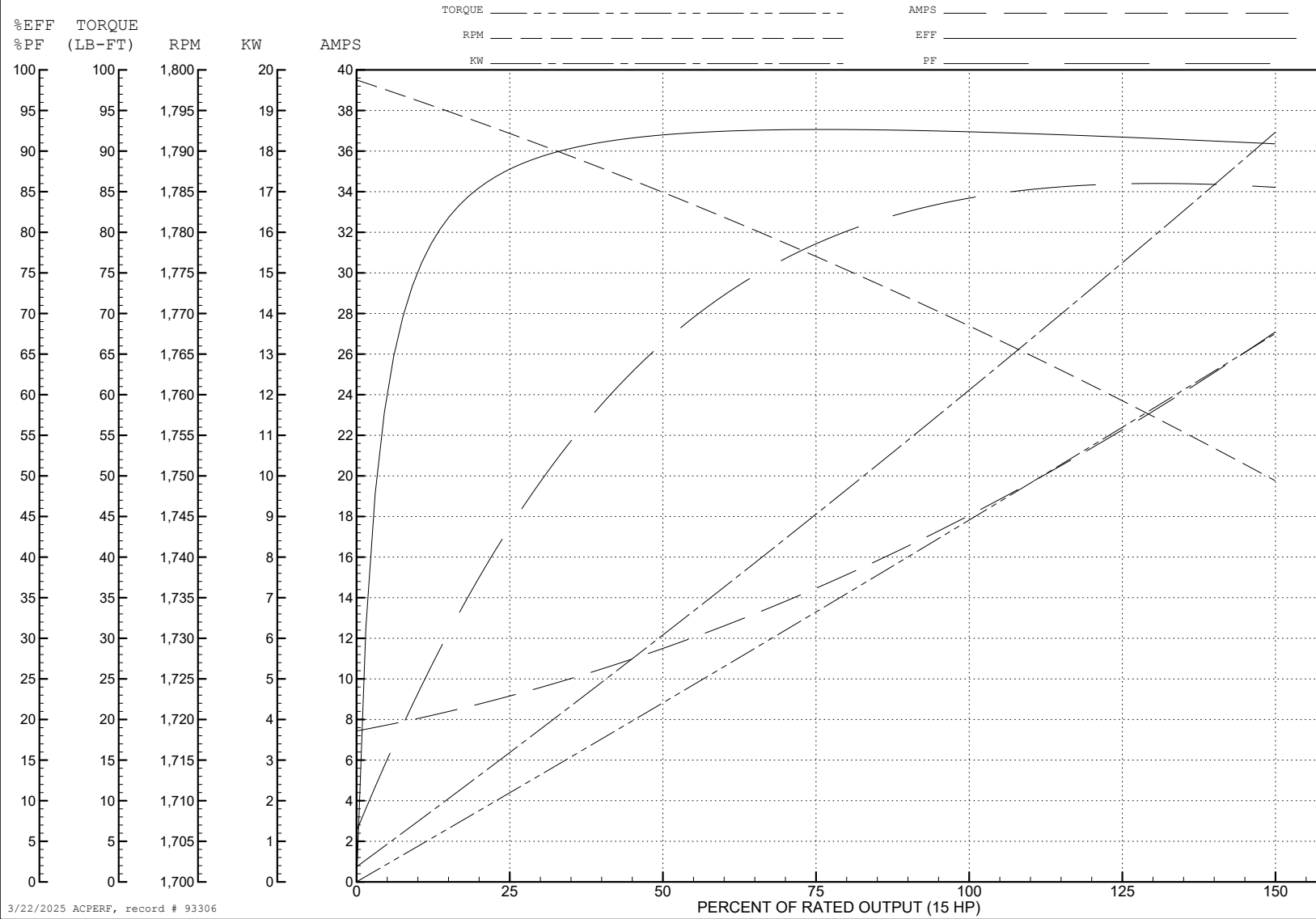
ABB Motors and Mechanical Inc.

WINDING # 09WGT597

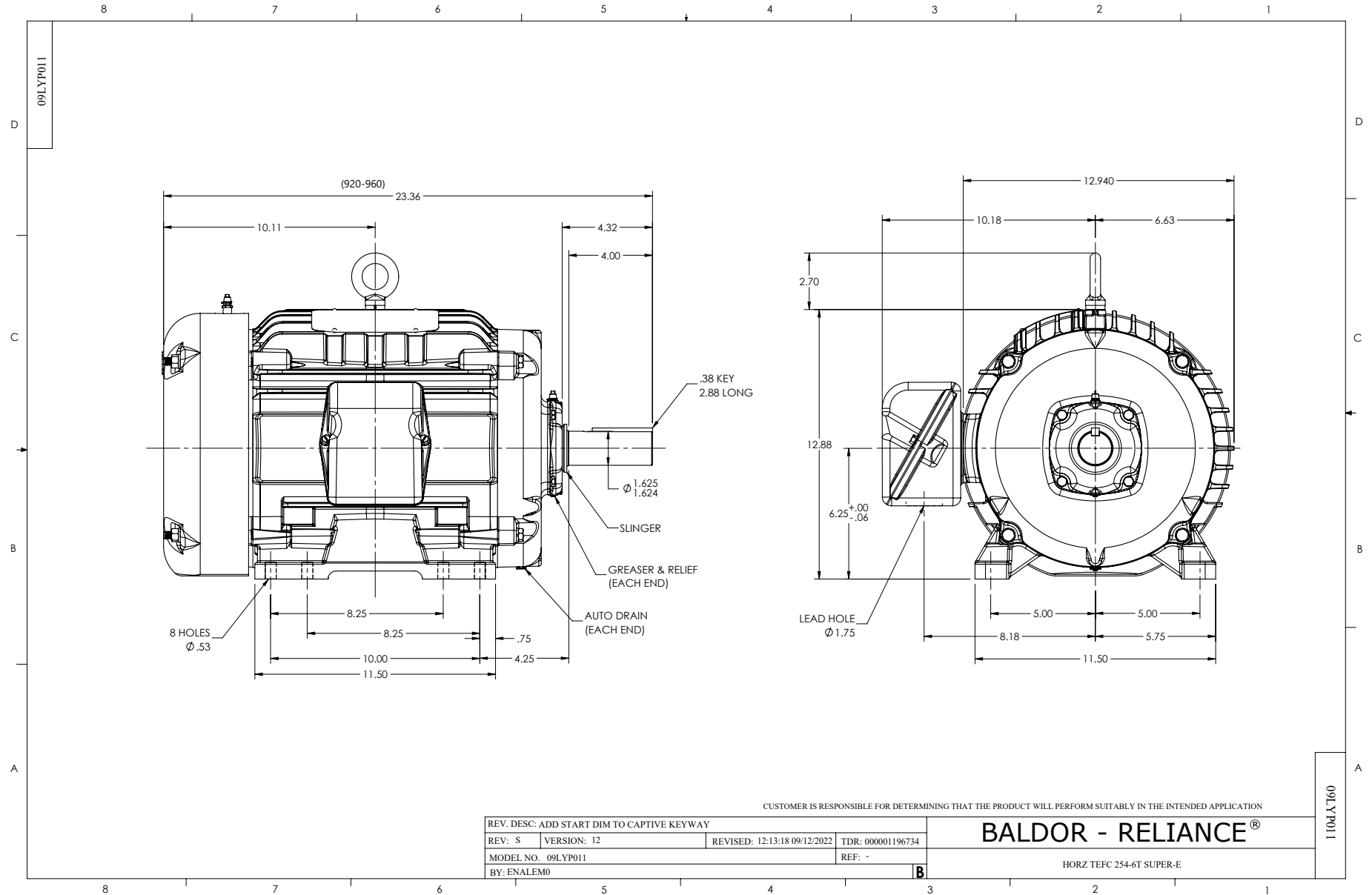
Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M

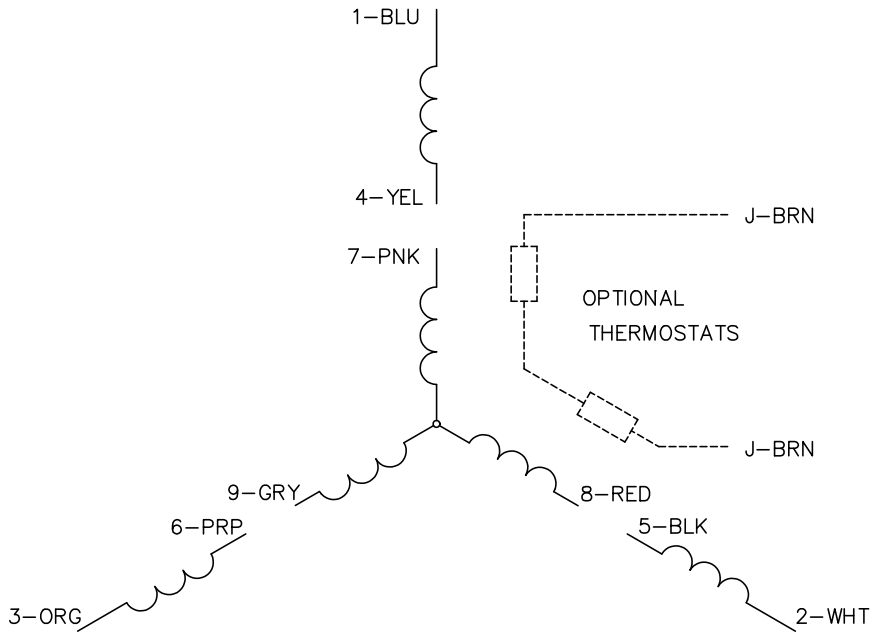
TORQUES (LB-FT): PO=151 PU=76.5 LR=84.9 LRA=131



3/22/2025 ACPERF, record # 93306



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