

BALDOR® • RELIANCE 

Product Information Packet

EM2394T-BG

15HP,3520RPM,3PH,60HZ,254T,0930M,TEFC,F1

Part Detail							
Revision:	T	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	09WGZ602	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	09K909	Layout:	09LYK909	Poles:	02	Created Date:	10-09-2013
Base:	RG	Eff. Date:	07-06-2021	Leads:	9#12		

Specs			
Catalog Number:	EM2394T-BG	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	H
Frame:	254T	Inverter Code:	Inverter Ready
Frame Material:	Iron	KVA Code:	G
Output @ Frequency:	15.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 12 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	0930M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	87
	CSA	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	17.500 A @ 460.0 V	Shaft Ground Indicator:	Shaft Grounding
	35.000 A @ 230.0 V	Shaft Rotation:	Reversible
	38.000 A @ 208.0 V	Shaft Slinger Indicator:	Shaft Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3441L										
CAT.NO.	EM2394T-BG									
SPEC.	09K909Z602G1									
HP	15									
VOLTS	230/460									
AMP	35/17.5									
RPM	3520									
FRAME	254T				HZ	60			PH	3
SER.F.	1.15		CODE	G	DES	B		CL	H	
NEMA-NOM-EFF	91		PF	87						
RATING	40C AMB-CONT									
CC	010A				USABLE AT 208V			38		
DE	6309				ODE	6208				
ENCL	TEFC		SN							
VPWM INVERTER READY										
CT6-60H(10:1)VT3-60H(20:1)										

Parts List		
Part Number	Description	Quantity
SA270709	SA 09K909Z602G1	1.000 EA
RA257341	RA 09K909Z602G1	1.000 EA
37FN3002C02	EXFN, PLASTIC, 6.00 OD, 1.503 ID	1.000 EA
HW1002A63	WASHER, 5/8 HI-COLLAR SPRLCKWASHER	1.000 EA
09CB3003	CB W/1.75" DIA LD HL - 37, 39, 307 & 309	1.000 EA
09GS1000SP	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
09EP1101A136	PU ENDPLATE, MACH	1.000 EA
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 EA
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 EA
09EP1100A208	ENDPLATE, MACH	1.000 EA
HA3400A33	STUD- 3/8-16 X 4.82 HEX WELKER	4.000 EA
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 EA
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 EA
XY3816A12	3/8-16 FINISHED NUT	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
09FH4000SP	309 FH - BLACK PRIMER	1.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 EA
09GS1013SP	GS FOR 09CB3501, 12CB1500 & 12CB1503 LID	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1508	LABEL "SHAFT GROUNDING BRUSH" 1.50 X .81	1.000 EA
HW4500A05	1669B ALEM/UNIV860 GR FTG X	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4066A01	PUSH IN T-DRAIN FITTING (BLACK)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.080 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4066A01	PUSH IN T-DRAIN FITTING (BLACK)	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP3441L	ALUM SUPER-E VPWM INVERTER READY UL	1.000 EA
09PA1000	PACKAGING GROUP COMBINED PRINT	1.000 EA
PE-0000003	ZRTG PE ASSEMBLY	1.000 EA
FE-0000013	ZRTG FE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data

Record # 32873

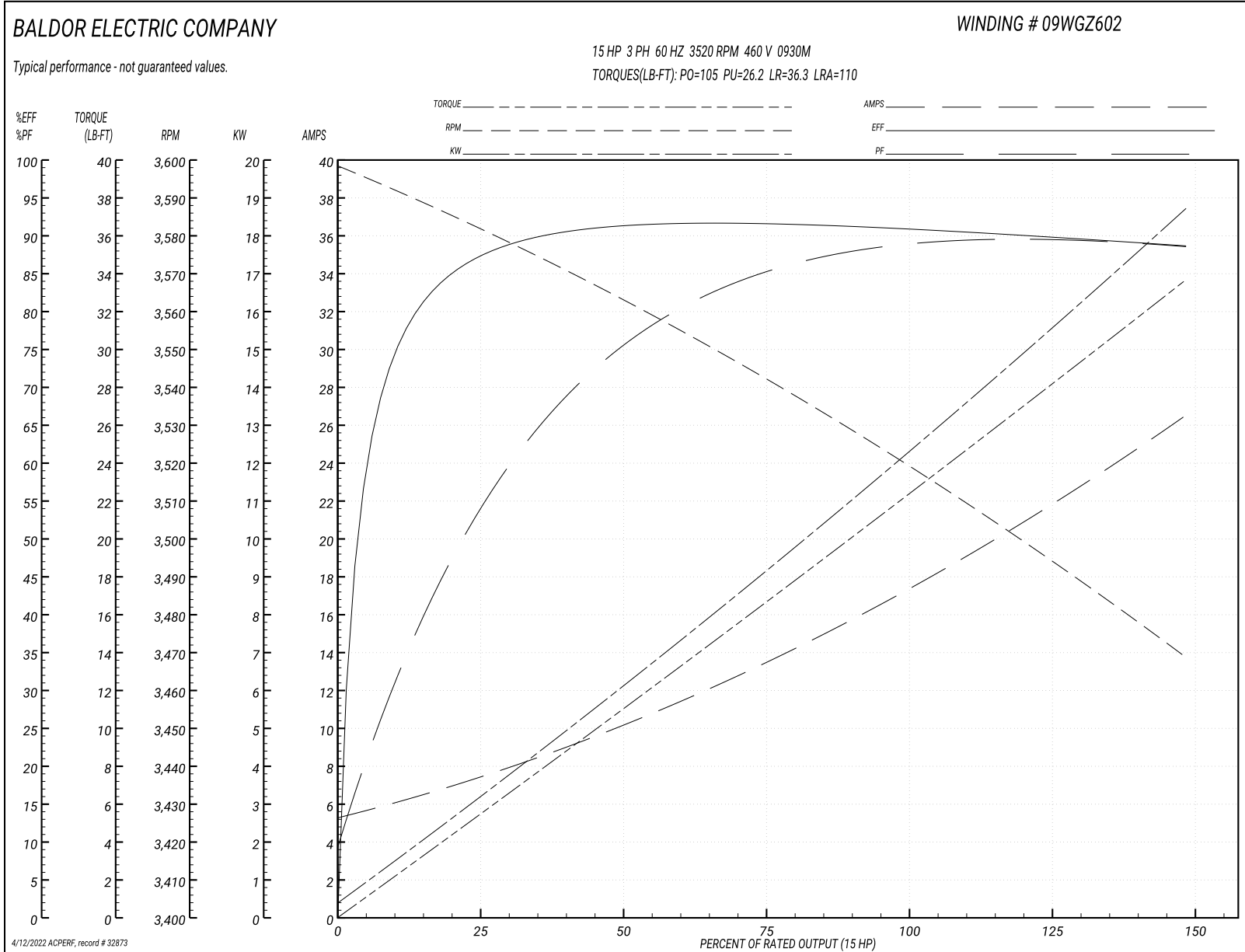
Typical performance - not guaranteed values

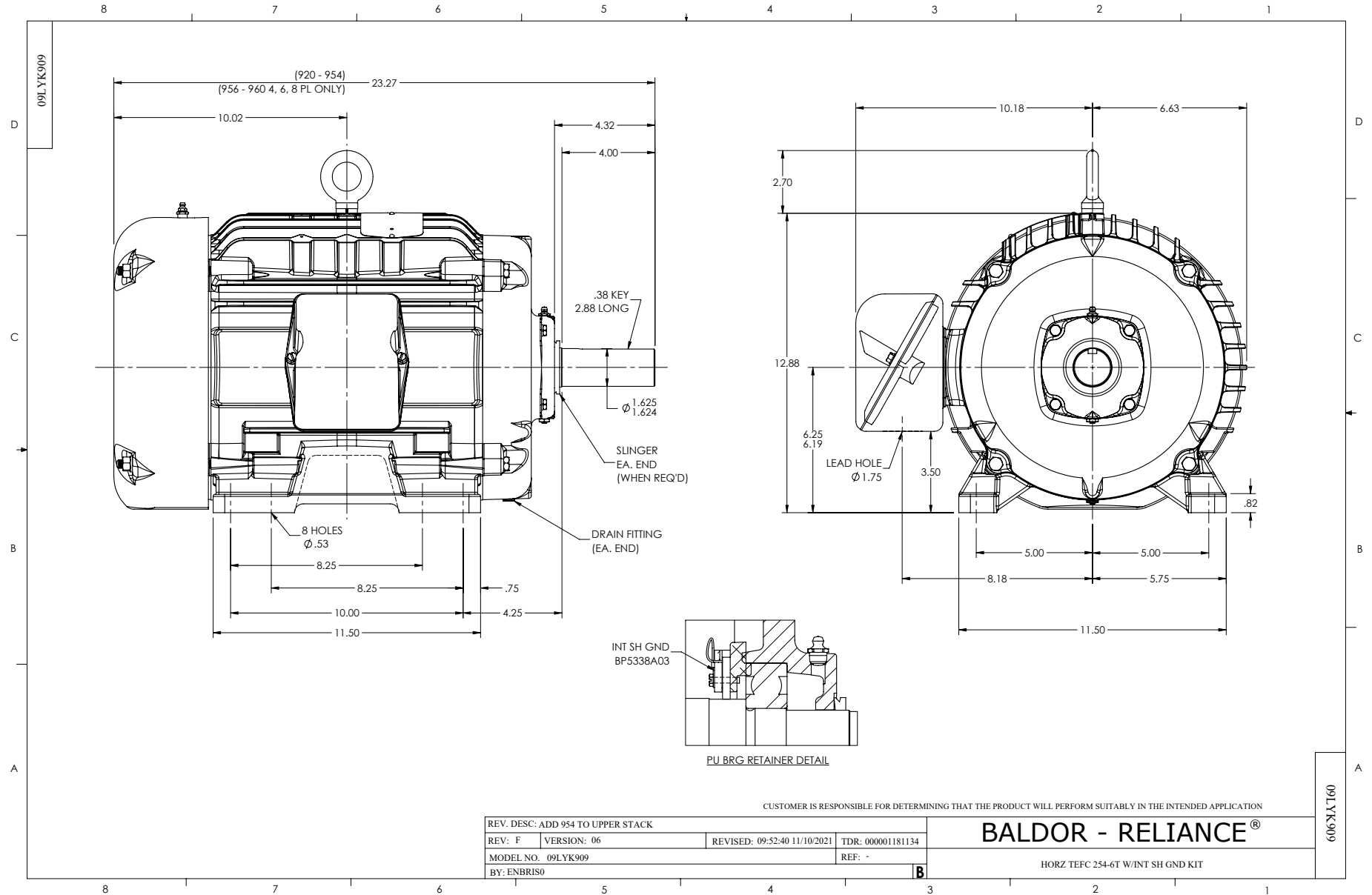
Winding: 09WGZ602-R008		Type: 0930M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	15	Full Load Torque	22.1 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	35/17.5	Breakdown Torque	105 LB-FT		
R.P.M.	3520	Pull-up Torque	26.2 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	36.3 LB-FT	
NEMA Design Code	B KVA Code	G	Starting Current	110 A	
Service Factor (S.F.)	1.15	No-load Current	5.58 A		
NEMA Nom. Eff.	91 Power Factor	87	Line-line Res. @ 25°C	0.68654 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	63°C		
S.F. Amps		Temp. Rise @ S.F. Load	78°C		
		Locked-rotor Power Factor	30		
		Rotor inertia	0.766 LB-FT ²		

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	77	85	87	89	89	88
Efficiency	86.4	91	91.6	91	90	88.6	90.4
Speed	3582.7	3563.6	3542.7	3520.9	3495.8	3468.3	3506
Line amperes	6.93	9.78	13.5	17.5	21.6	26.4	20

Performance Graph at 460V, 60Hz, 15.0HP Typical performance - Not guaranteed values





CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
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MTL: -	© □	

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3PH, DV, 9 LEADS, DELTA CONNECTION

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