

ABB BALDOR RELIANCE III

Customer information packet

VHECP2394T

30M 2P TEFC VER 254HP 32-6 SE DRIPCOVER

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254HP
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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA UR CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	38.000 A @ 208.0 V 35.000 A @ 230.0 V 17.500 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	N
Type	AC
Mech. spec.	09G604
Base	
Status	PRD/A
Elec. spec.	09WGZ602
Layout	09LYG604
Eff. date	02-01-2024
CD Diagram	CD0180
Poles	02
Leads	9#12
Proprietary	False
Created date	05-29-2018

High Voltage Full Load Amps	17.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Vertical 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	0930M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.73 IN
Power Factor	87
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Shaft Indicator	P-Base Groove & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3520 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1260											
CAT.NO.	VHECP2394T										
SPEC.	09G604Z602G1										
HP	15										
VOLTS	230/460										
AMP	35/17.5										
RPM	3520										
FRAME	254HP		HZ	60			PH		3		
SER.F.	1.15		CODE	G		DES	B		CL		F
NEMA-NOM-EFF	91		PF	87							
RATING	40C AMB-CONT										
CC	010A										
DE	6311		ODE	6208							
ENCL	TEFC		SN								

AC Induction Motor Performance Data

Record # 31412

Typical performance - not guaranteed values

Winding: 09WGZ602-R001			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.		3525	Pull-up Torque		26.2 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		36.3 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		110 A	
Service Factor (S.F.)		1.15	No-load Current		5.58 A	
NEMA Nom. Eff.		91 Power Factor	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-ft²	

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

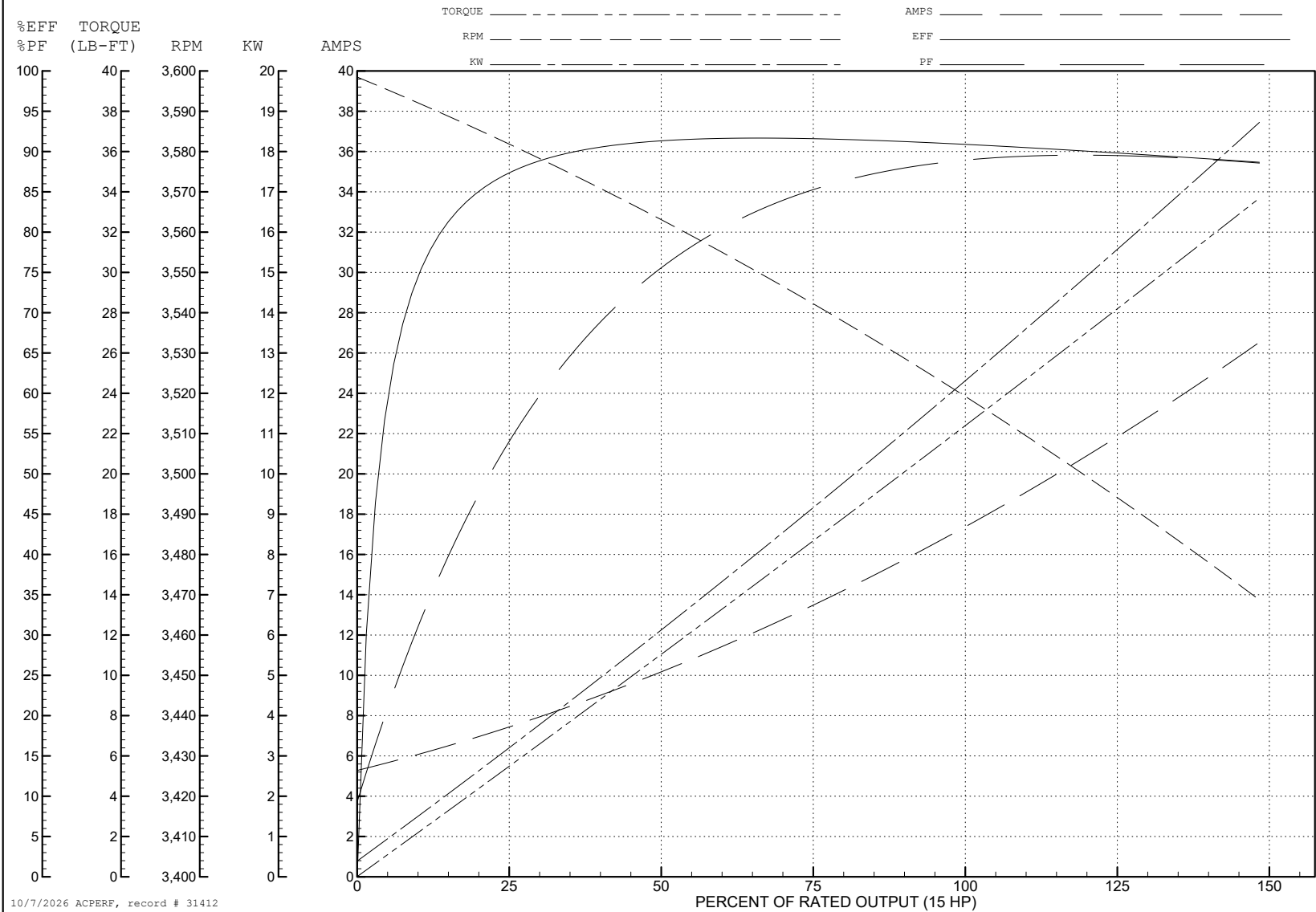
ABB Motors and Mechanical Inc.

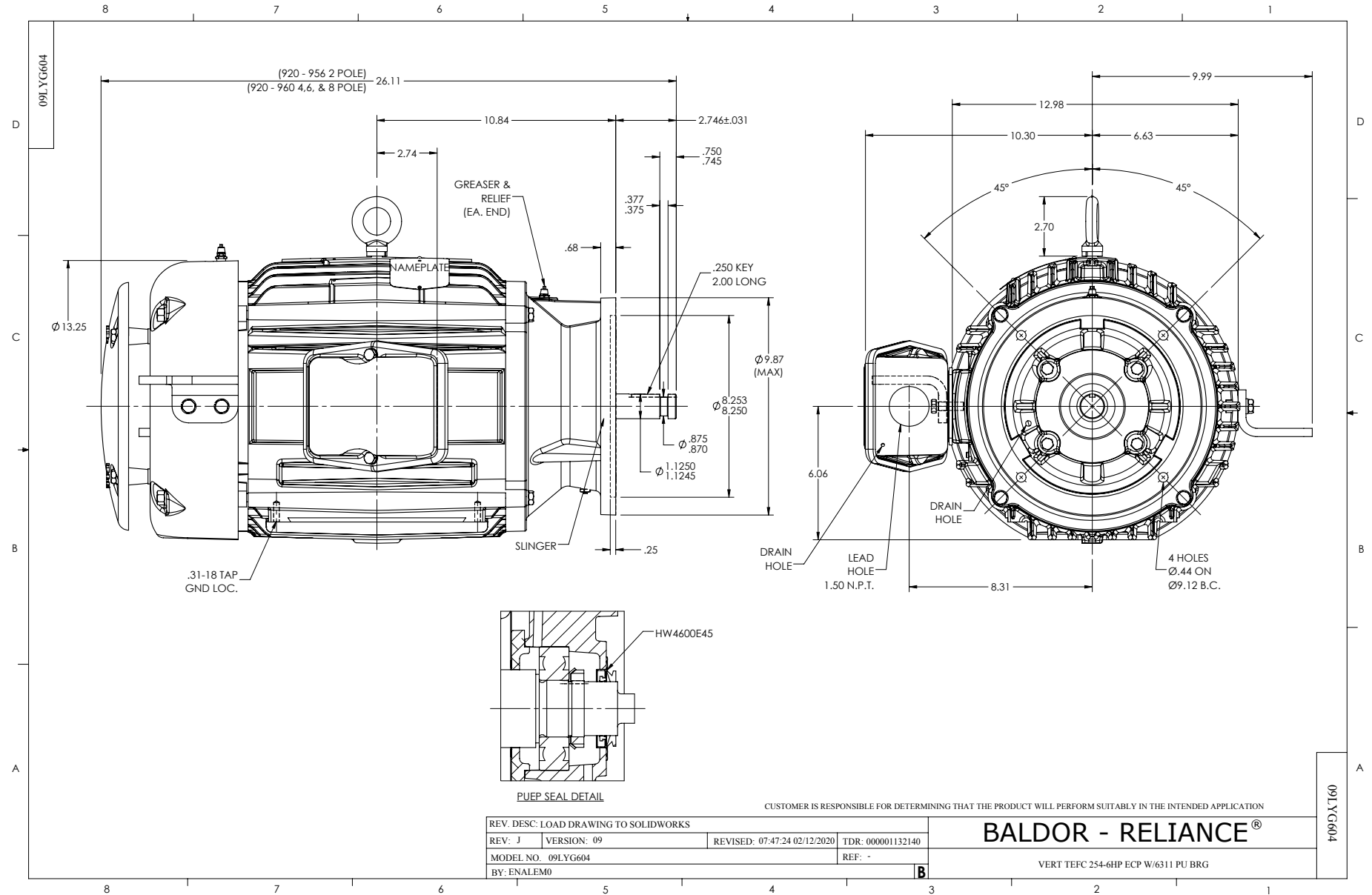
WINDING # 09WGZ602

Typical performance - not guaranteed values.

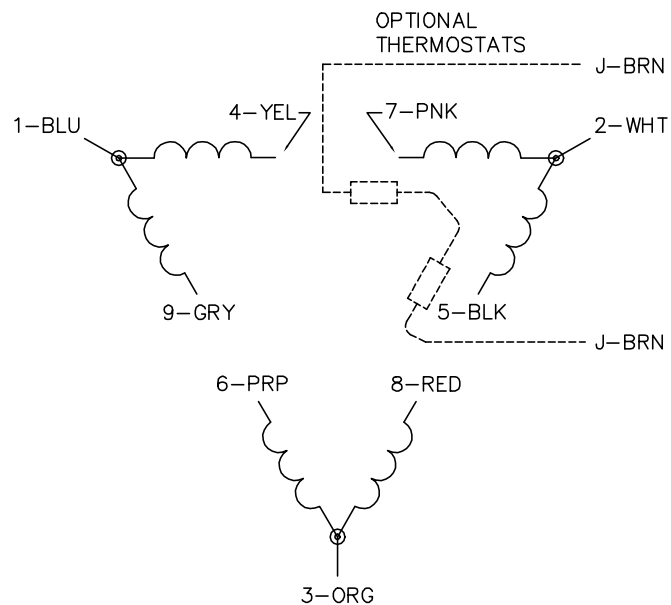
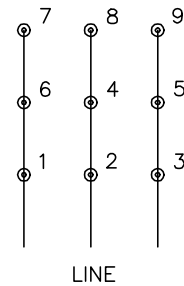
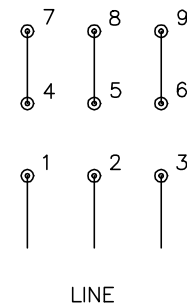
15 HP 3 PH 60 HZ 3525 RPM 460 V 0930M

TORQUES (LB-FT): PO=105 PU=26.2 LR=36.3 LRA=110





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

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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