ABB BALDOR RELIANCE

Customer information packet

VHECP2394T

30M 2P TEFC VER 254HP 32-6 SE DRIPCOVER
Class - None
Division - Not Applicable

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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**	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. @ 25ºC**	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

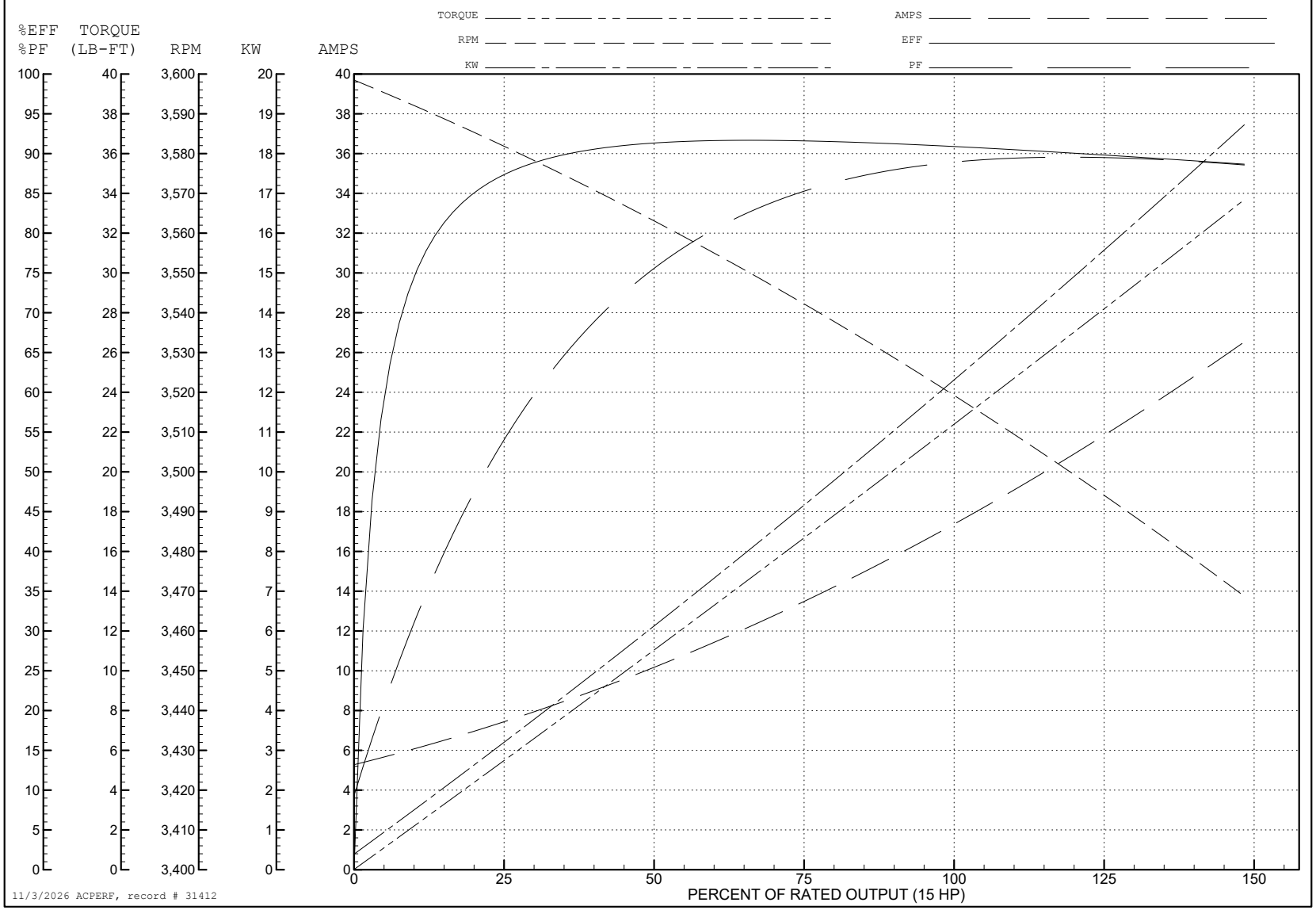
ABB Motors and Mechanical Inc.

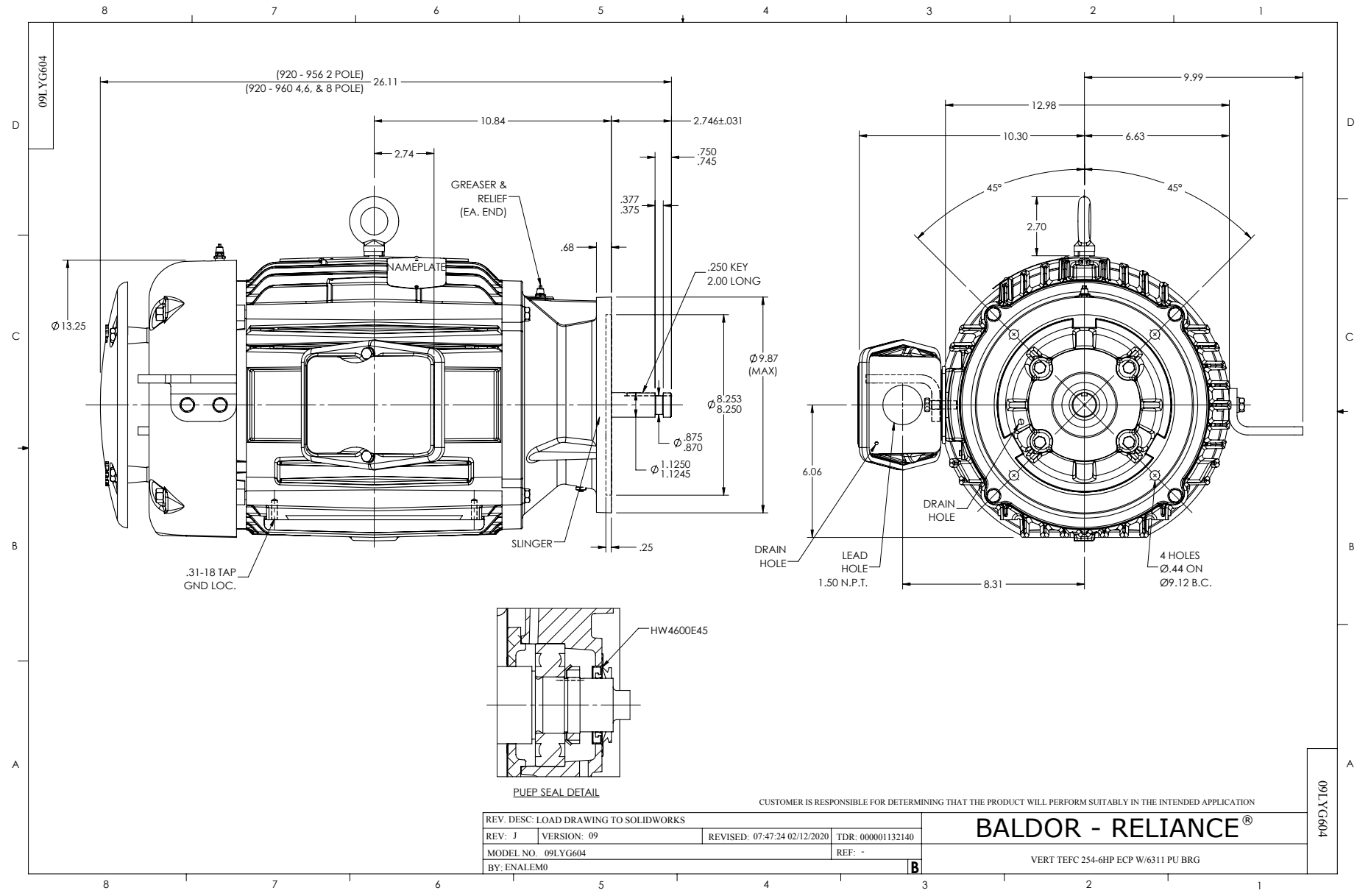
WINDING # 09WGZ602

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

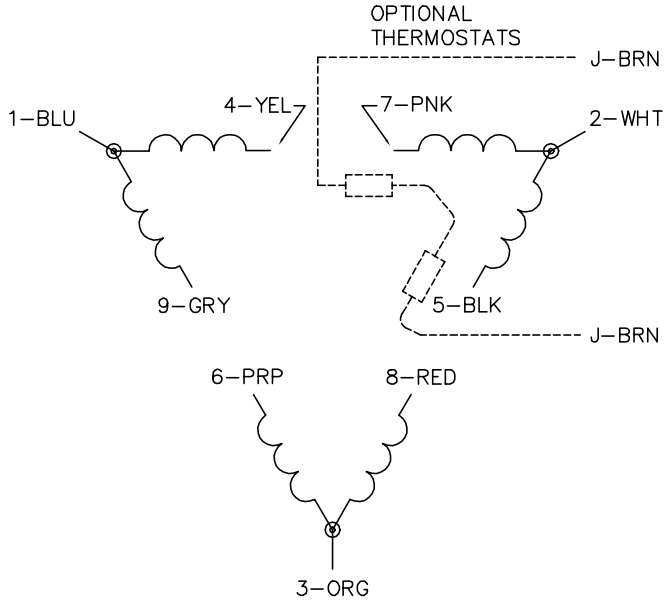
Typical performance - not guaranteed values.

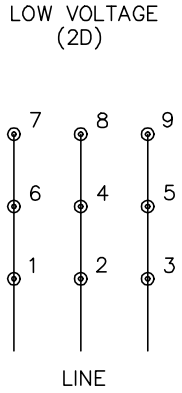
TORQUES(LB-FT): PO=105 PU=26.2 LR=36.3 LRA=110

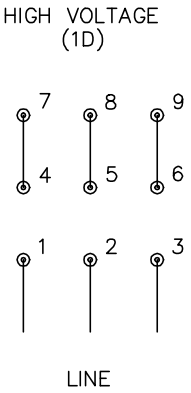



09LYG604
(920 - 956 2 POLE)
(920 - 960 4,6, & 8 POLE)
26.11
10.84
2.746±.031
2.74
.750
.745
GREASER &
RELIEF
(EA. END)
.377
.375
.68
NAMEPLATE
.250 KEY
2.00 LONG
Ø13.25
Ø9.87
(MAX)
Ø8.253
8.250
Ø.875
.870
Ø1.1250
1.1245
SLINGER
.25
.31-18 TAP
GND LOC.
9.99
12.98
10.30
6.63
45°
45°
2.70
6.06
DRAIN
HOLE
DRAIN
HOLE
LEAD
HOLE
1.50 N.P.T.
8.31
4 HOLES
Ø.44 ON
Ø9.12 B.C.
HW4600E45
PUEP SEAL DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: J
VERSION: 09
REVISED: 07:47:24 02/12/2020
TDR: 000001132140
MODEL NO. 09LYG604
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT TEFC 254-6HP ECP W/6311 PU BRG
09LYG604

CD0180







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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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