ABB BALDOR RELIANCE

Customer information packet

VLECP82394T-4

15HP, 3520RPM, 3PH, 60HZ, 254LP, TEFC, V1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	254LP
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM UR
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
Constant Torque Speed Range	6
Current @ Voltage	17.000 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
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	P
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGY948
Layout	09LY-000-166
Eff. date	02-01-2024
CD Diagram	CD0006
Poles	02
Leads	3#12
Proprietary	False
Created date	03-27-2019

High Voltage Full Load Amps	17.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	G
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	0934M
Mounting Arrangement	V1
Number of Poles	2
Overall Length	29.53 IN
Power Factor	89
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley Face Code	P-Base
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP4332

CAT.NO.	VLECP82394T-4			**P/N**				**ENCLOSURE**	TEFC			
SPEC.	09-0000-1150			**CC**	010A	**FRAME**	254LP	**S/N**				
HP	15			**CLASS**	F	**HZ**	60	**ODE BRG**	7308	**DE BRG**	6213	
RPM	3520	**RPM MAX**	5400	**PH**	3	**DES**	B	**D.E. BRG.**	65BC02X30X			
VOLT	460			**KVA-CODE**	G			**O.D.E. BRG.**	40BT03X30X			
AMP	17			**MOTOR WEIGHT**	240	**GREASE**	POLYREX EM					
RATING	40C AMB-CONT			**MAX. KVAR**	2.2	**BLANK**						
NEMA-NOM-EFF	91	**# OF ROTOR BARS**	28	**SER.F.**	1.15	**IP**	56					
G.MIN.EFF	89.5	**# OF STATOR SLOTS**	36	**PF**	89	**INV.TYPE**	PWM					
TEMP CODE	T3C	**INVERTER-TEMP-CODE**	180									
TEMP =	160	**C HP FR**	60	**C HP TO**	90							
CT HZ FROM	1.3	**CT HZ TO**	60									
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**		**MAX. SPACE HEATER TEMP.**		**VT HZ FROM**	0-	**VT HZ TO**	60	

AC Induction Motor Performance Data
Record # 49591
Typical performance - not guaranteed values

Winding: 09WGY948-R035	**Type:** 0934M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			15	**Full Load Torque**	22.4 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			17	**Breakdown Torque**	87.8 LB-FT
R.P.M.			3520	**Pull-up Torque**	26 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	32.7 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	114 A
Service Factor (S.F.)			1.15	**No-load Current**	5.1 A
NEMA Nom. Eff.	91	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.622 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	54°C
S.F. Amps				**Temp. Rise @ S.F. Load**	67°C
				Locked-rotor Power Factor	28.4
				Rotor inertia	0.868 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	61	80	88	89	90	90	90
Efficiency	87.4	91.1	91.7	91.3	90.1	88.7	90.5
Speed	3581	3563	3544	3522	3499	3472	3508
Line amperes	6.66	9.71	13.1	17.3	21.7	26.5	19.9

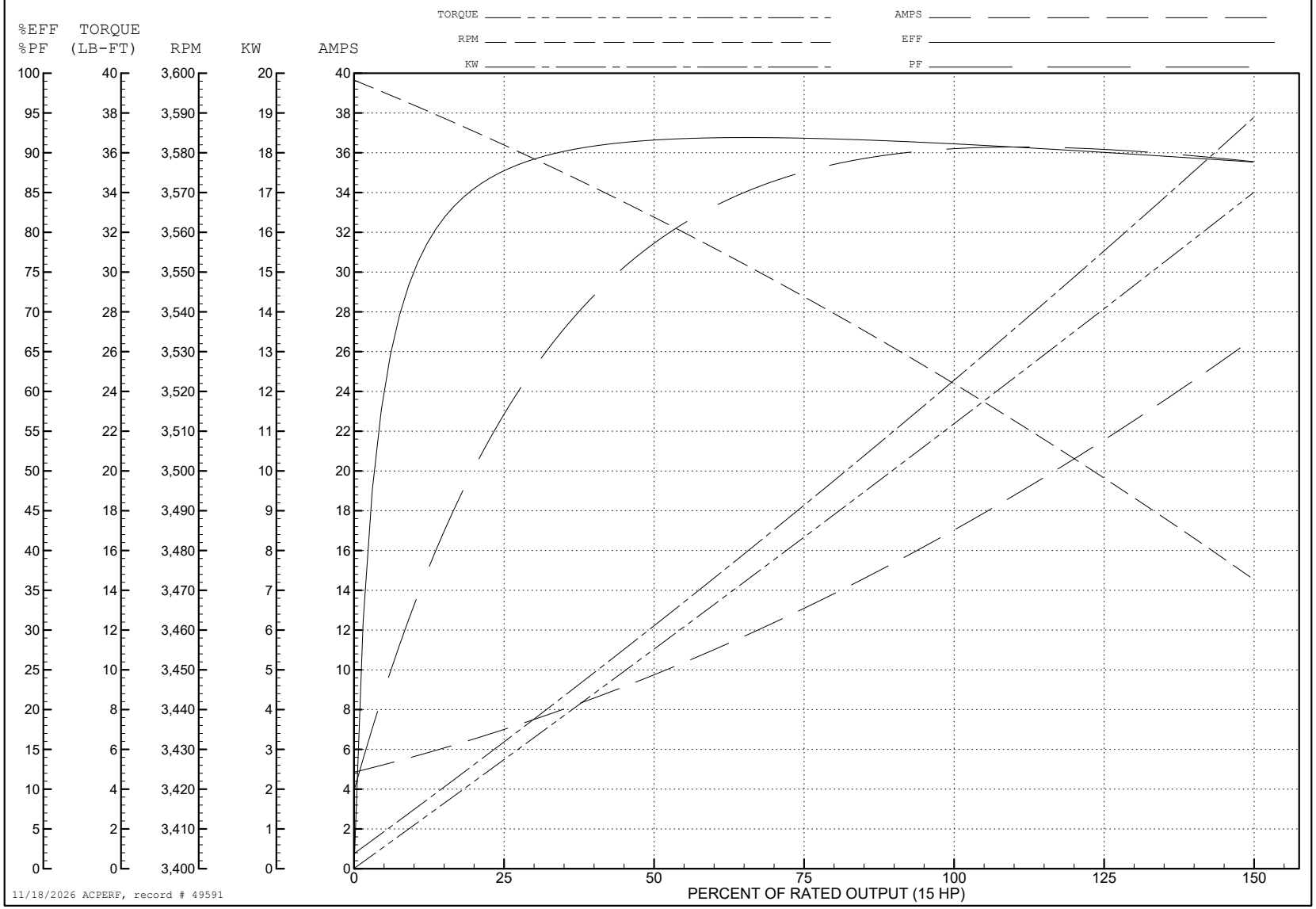
ABB Motors and Mechanical Inc.

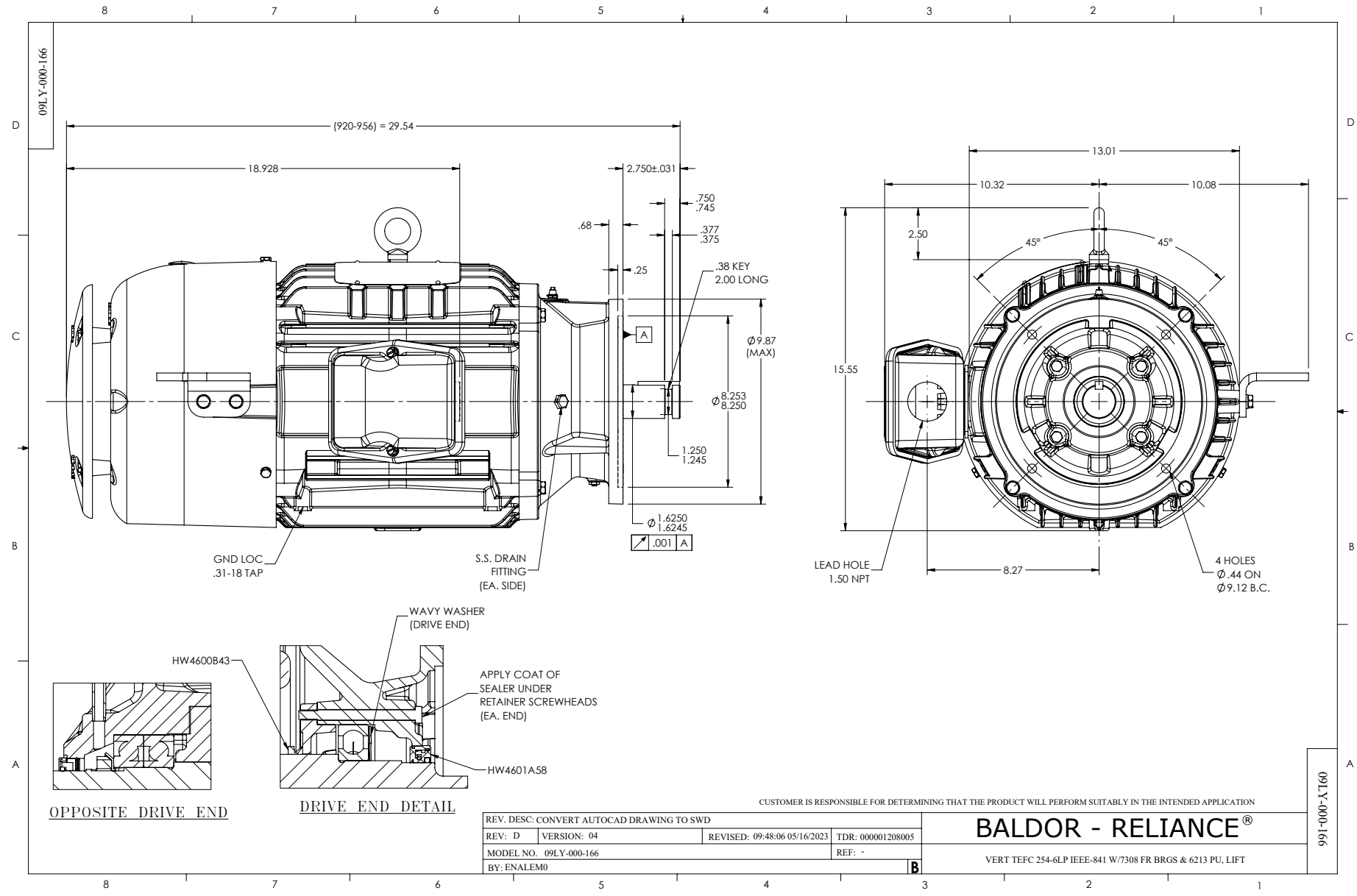
WINDING # 09WGY948

15 HP 3 PH 60 HZ 3520 RPM 460 V 0934M

Typical performance - not guaranteed values.

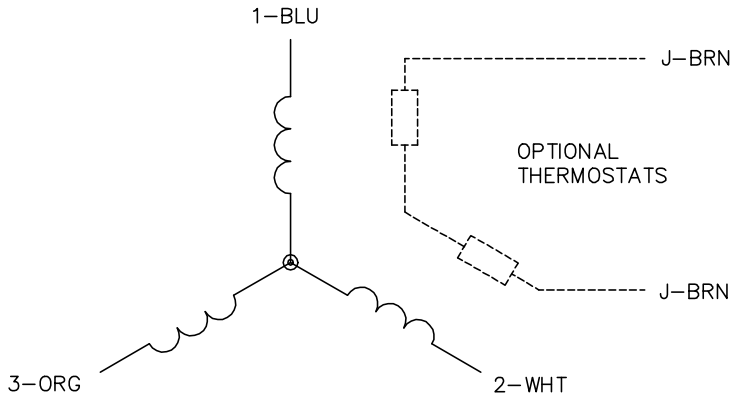
TORQUES(LB-FT): PO=87.8 PU=26 LR=32.7 LRA=114

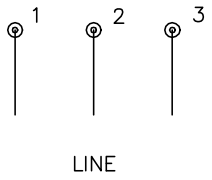



09LY-000-X160
(920-956) = 29.54
18.928
2.750±.031
.750
.745
.68
.377
.375
.25
.38 KEY
2.00 LONG
A
Ø9.87
(MAX)
Ø8.253
8.250
1.250
1.245
Ø1.6250
1.6245
.001 A
GND LOC
.31-18 TAP
S.S. DRAIN
FITTING
(EA. SIDE)
13.01
10.32
10.08
2.50
45°
45°
15.55
LEAD HOLE
1.50 NPT
8.27
4 HOLES
Ø.44 ON
Ø9.12 B.C.
WAVY WASHER
(DRIVE END)
HW4600B43
APPLY COAT OF
SEALER UNDER
RETAINER SCREWHEADS
(EA. END)
HW4601A58
OPPOSITE DRIVE END
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: D
VERSION: 04
REVISED: 09:48:06 05/16/2023
TDR: 000001208005
MODEL NO. 09LY-000-166
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT TEFC 254-6LP IEEE-841 W/7308 FR BRGS & 6213 PU, LIFT
09LY-000-166

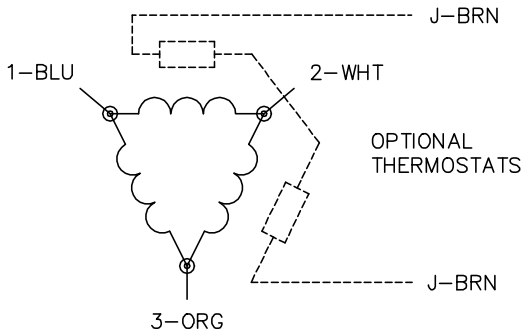
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1