ABB BALDOR RELIANCE

Customer information packet

VECP82394T-4

15HP, 3510RPM, 3PH, 60HZ, 254TC, 0934M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	254TC
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	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
	CCSA US
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	1.3
Current @ Voltage	17.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	AJ
Type	AC
Mech. spec.	09K208
Base	
Status	PRD/A
Elec. spec.	09WGY948
Layout	09LYK208
Eff. date	12-02-2025
CD Diagram	CD0006
Poles	02
Leads	3#12
Proprietary	False
Created date	07-26-2013

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	17.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	0934M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.28 IN
Power Factor	89
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3520 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

NP4332

CAT.NO.	VECP82394T-4			**P/N**				**ENCLOSURE**	TEFC			
SPEC.	09K208Y948		**CC**	010A	**FRAME**	254TC		**S/N**				
HP	15			**CLASS**	F	**HZ**	60	**ODE BRG**	6309	**DE BRG**	6309	
RPM	3520	**RPM MAX**	5400	**PH**	3	**DES**	B	**D.E. BRG.**	45BC03X30X			
VOLT	460			**KVA-CODE**	G			**O.D.E. BRG.**	45BC03X30X			
AMP	17			**MOTOR WEIGHT**	304	**GREASE**	POLYREX EM					
RATING	40C AMB-CONT			**MAX. KVAR**	1.6	**BLANK**						
NEMA-NOM-EFF	91	**# OF ROTOR BARS**	28	**SER.F.**	1.15	**IP**						
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 # 47078
Typical performance - not guaranteed values

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

Nameplate Data			
Rated Output (HP)			15
Volts			460
Full Load Amps			17
R.P.M.			3520
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91	**Power Factor**	89
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: Single Voltage Motor	
Full Load Torque	22.2 LB-FT
Start Configuration	direct on line
Breakdown Torque	119 LB-FT
Pull-up Torque	22.7 LB-FT
Locked-rotor Torque	36.5 LB-FT
Starting Current	116 A
No-load Current	4.94 A
Line-line Res. @ 25ºC	0.634 Ω
Temp. Rise @ Rated Load	45°C
Temp. Rise @ S.F. Load	55°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	63	82	88	91	92	92	92
Efficiency	87.5	91.5	92.2	91.8	90.9	89.7	91.3
Speed	3583	3565	3547	3527	3505	3481	3514
Line amperes	6.42	9.31	12.9	16.8	21	25.6	19.3

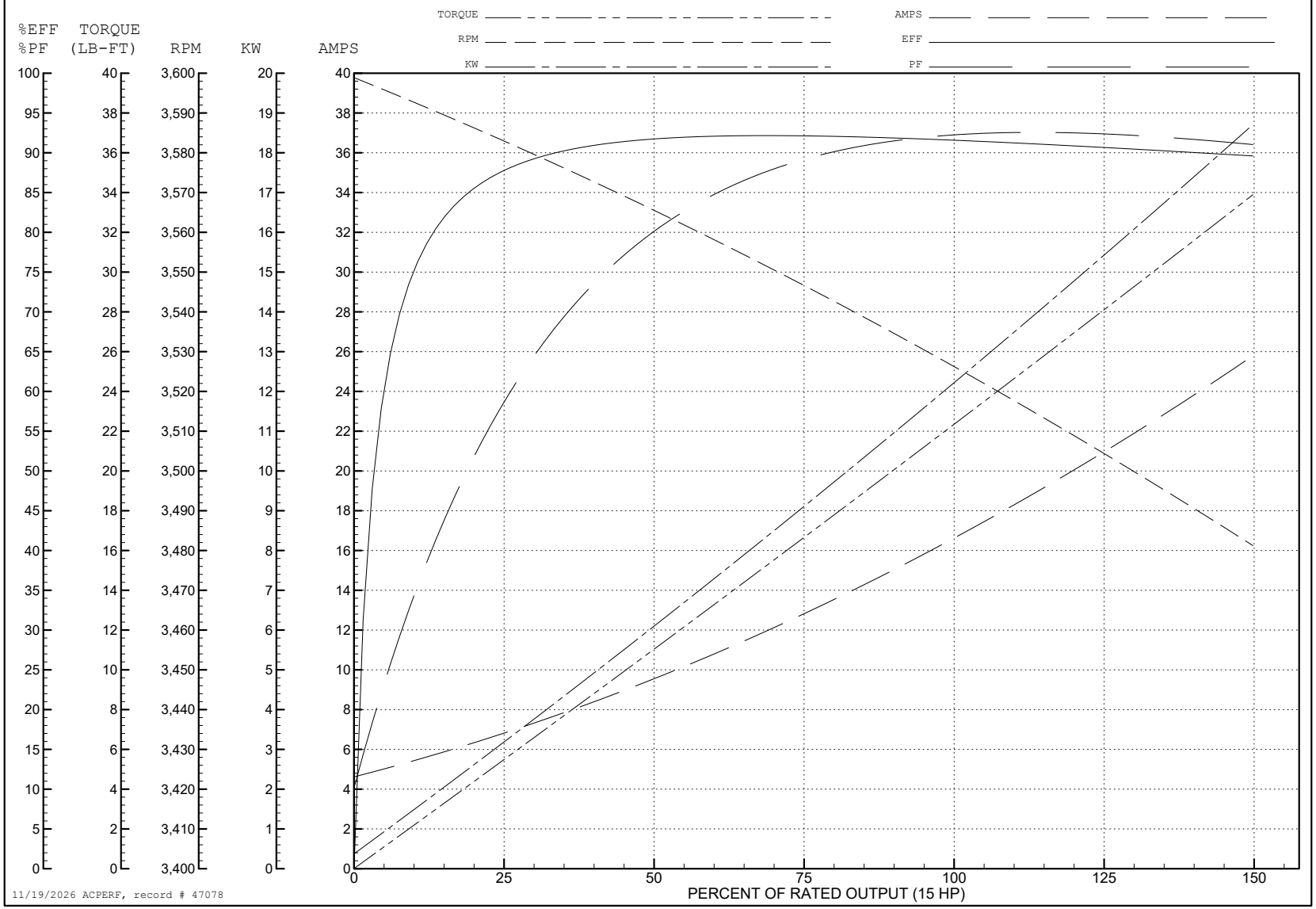
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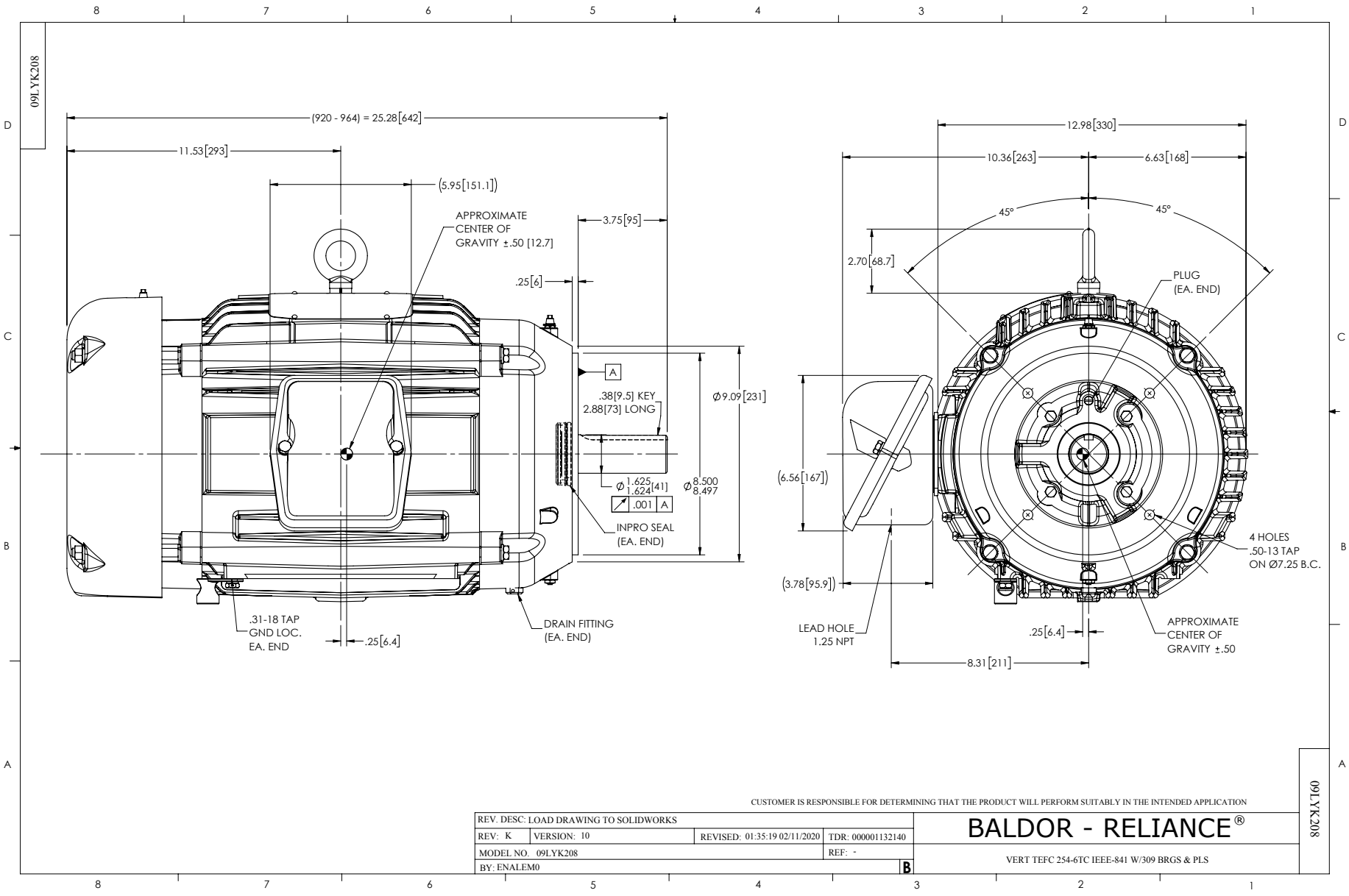
WINDING # 09WGY948

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

Typical performance - not guaranteed values.

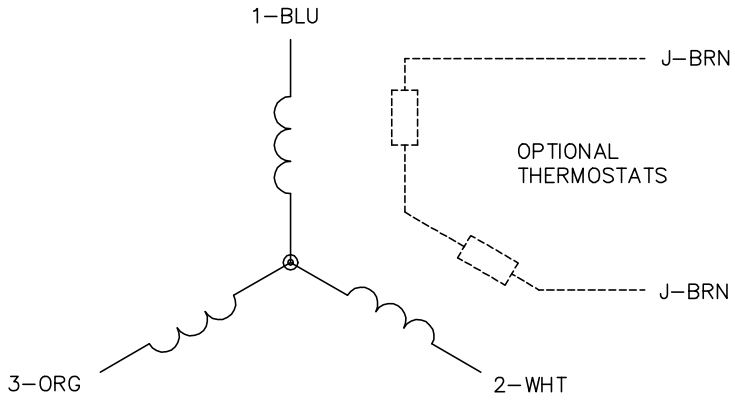
TORQUES(LB-FT): PO=119 PU=22.7 LR=36.5 LRA=116

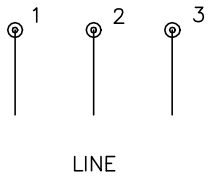



09LYK208
(920 - 964) = 25.28[642]
11.53[293]
(5.95[151.1])
APPROXIMATE CENTER OF GRAVITY ±.50 [12.7]
3.75[95]
.25[6]
A
.38[9.5] KEY 2.88[73] LONG
Ø9.09[231]
Ø1.625 1.624[41]
.001 A
Ø8.500 8.497
INPRO SEAL (EA. END)
.31-18 TAP GND LOC. EA. END
.25[6.4]
DRAIN FITTING (EA. END)
12.98[330]
10.36[263]
6.63[168]
45°
45°
2.70[68.7]
PLUG (EA. END)
(6.56[167])
(3.78[95.9])
4 HOLES .50-13 TAP ON Ø7.25 B.C.
LEAD HOLE 1.25 NPT
.25[6.4]
APPROXIMATE CENTER OF GRAVITY ±.50
8.31[211]
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: K
VERSION: 10
REVISED: 01:35:19 02/11/2020
TDR: 000001132140
MODEL NO. 09LYK208
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT TEFC 254-6TC IEEE-841 W/309 BRGS & PLS
09LYK208

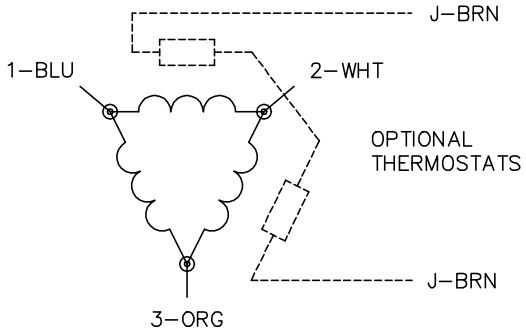
CD0006

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		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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