ABB BALDOR RELIANCE

Customer information packet

EM2513T-CI

15HP, 1765RPM, 3PH, 60HZ, 254T, 0936M, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	254T
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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	35.600 A @ 230.0 V
	37.500 A @ 208.0 V
	17.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	U
Type	AC
Mech. spec.	09B01
Base	
Status	PRD/A
Elec. spec.	09WGZ565
Layout	09LYB001
Eff. date	04-07-2026
CD Diagram	CD0180
Poles	04
Leads	9#12
Proprietary	False
Created date	03-08-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	17.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0936M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.62 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	1765 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

NP3554LUA												
CAT.NO.	EM2513T-CI			**P/N**						**ENCL**	OPEN	
SPEC.	09B001Z565G1	**CC**	010A	**FRAME**	254T		**SER.NO.**					
HP	15	**CLASS**	F	**HZ**	60							
RPM	1765	**PH**	3	**DES**	B							
VOLTS	230/460	**CODE**	G	**ODE BRG**	6208	**DE BRG**	6309					
AMPS	35.6/17.8											
RATING	40C AMB-CONT	**NEMA-NOM-EFF**	93	**GREASE**	POLYREX EM							
PF	85	**SER.F.**	1.15	**CT30-60(2:1) VT3-60(20:1)**								
USABLE AT	50HZ 15HP 190/380V 42/21A		SF 1.0									
HTR-VOLTS	**HTR-AMPS**	**MAX. SPACE HEATER TEMP.**										

AC Induction Motor Performance Data
Record # 73293
Typical performance - not guaranteed values

Winding: 09WGZ565-R001	**Type:** 0936M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	44.55 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			35.6/17.8	**Breakdown Torque**	149 LB-FT
R.P.M.			1765	**Pull-up Torque**	67.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	92.8 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	119 A
Service Factor (S.F.)			1.15	**No-load Current**	7.66 A
NEMA Nom. Eff.	93	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.64931 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps				**Temp. Rise @ S.F. Load**	50°C
				Locked-rotor Power Factor	34.2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	68	78	83	85	86	84
Efficiency	88.2	92	92.6	92.2	91.3	90.2	91.7
Speed	1792.4	1784.7	1776.2	1767.3	1757.4	1746.5	1761
Line amperes	8.76	11.2	14.5	18.3	22.6	27.1	20.9

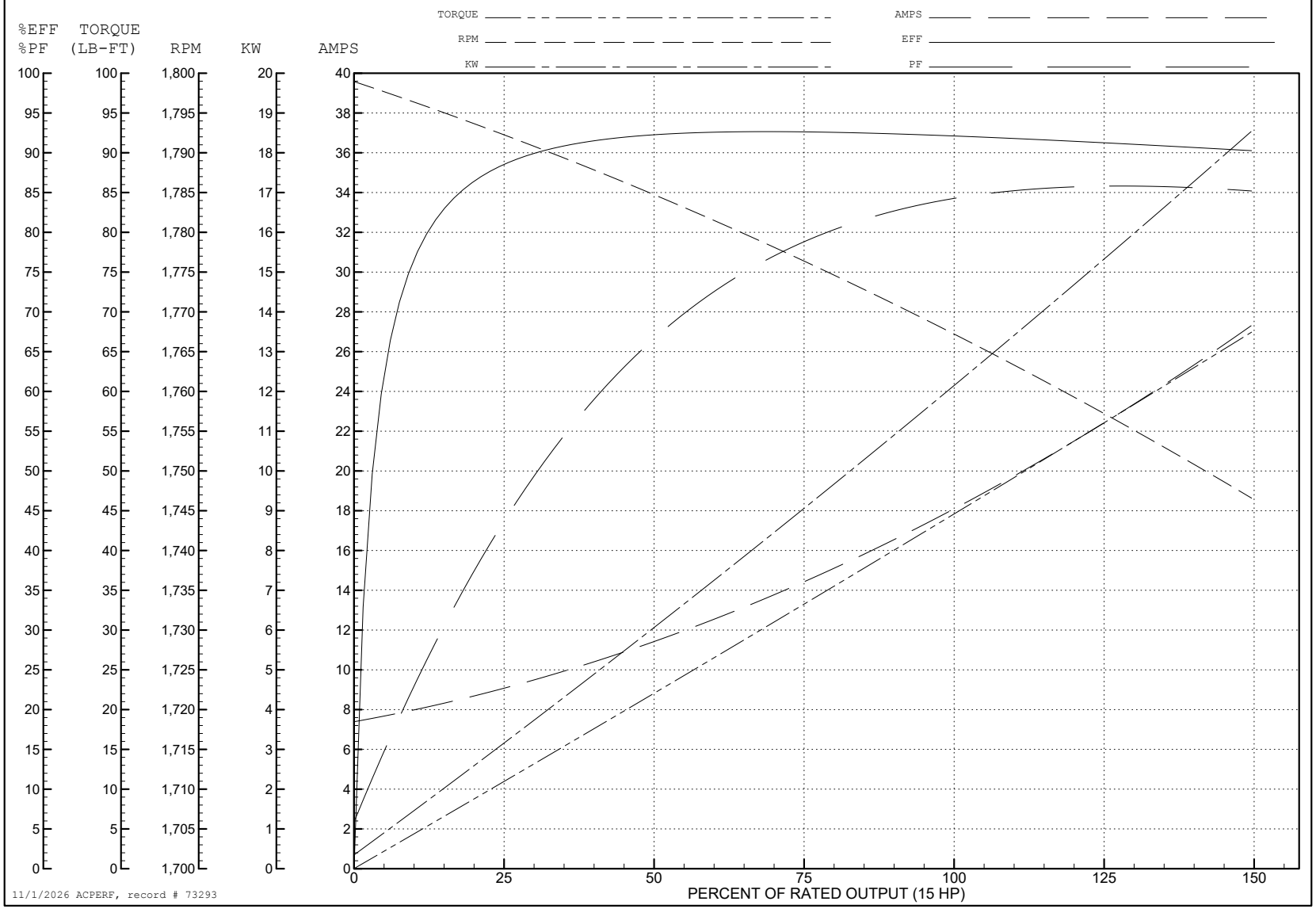
ABB Motors and Mechanical Inc.

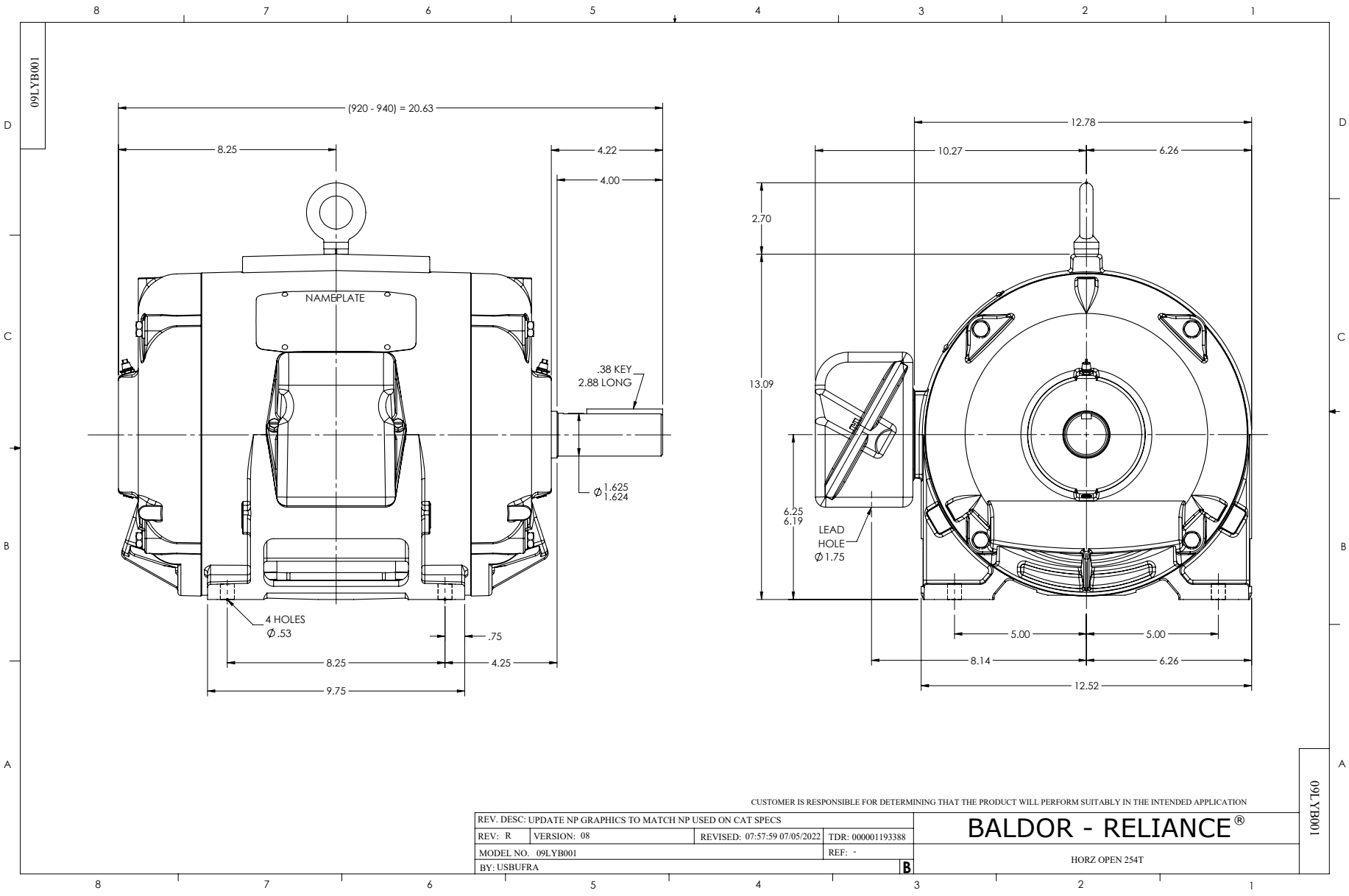
WINDING # 09WGZ565

15 HP 3 PH 60 HZ 1765 RPM 460 V 0936M

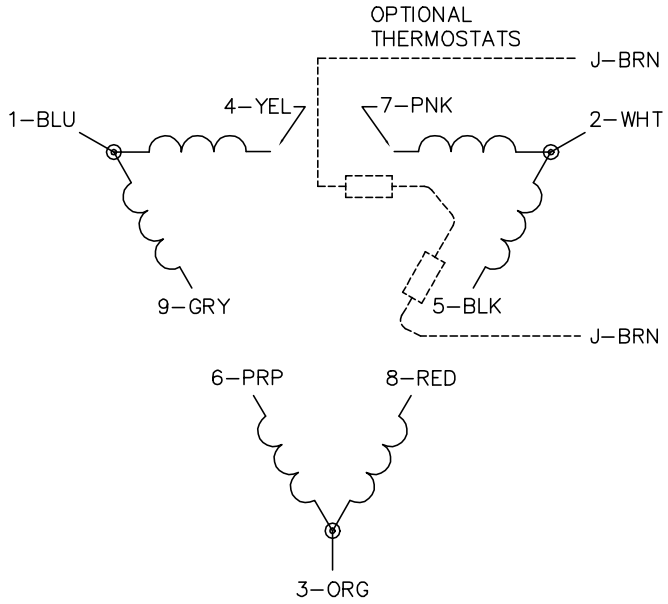
Typical performance - not guaranteed values.

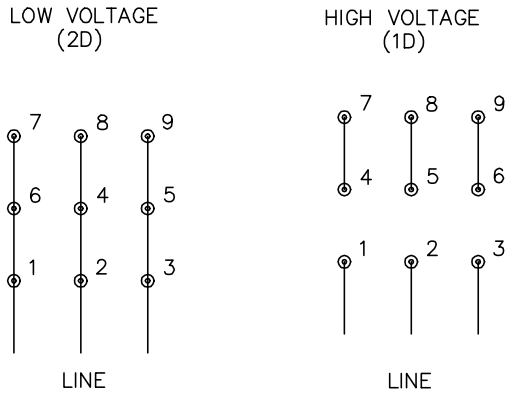
TORQUES(LB-FT): PO=149 PU=67.2 LR=92.8 LRA=119




09LYB001
(920 - 940) = 20.63
8.25
4.22
4.00
NAMEPLATE
.38 KEY
2.88 LONG
Ø 1.625
1.624
4 HOLES
Ø .53
.75
8.25
4.25
9.75
12.78
10.27
6.26
2.70
13.09
6.25
6.19
LEAD
HOLE
Ø 1.75
5.00
5.00
8.14
6.26
12.52
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE NP GRAPHICS TO MATCH NP USED ON CAT SPECS
REV: R
VERSION: 08
REVISED: 07:57:59 07/05/2022
TDR: 000001193388
MODEL NO. 09LYB001
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ OPEN 254T
09LYB001

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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