ABB BALDOR RELIANCE

Customer information packet

CEM3154T-G

1.5HP, 1740RPM, 3PH, 60HZ, 145TC, 3526M, OPSB
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	145TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
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	2.100 A @ 460.0 V
	4.200 A @ 208.0 V
	4.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.1 a

Part Detail

Revision	B
Type	AC
Mech. spec.	35E2907
Base	
Status	PRD/A
Elec. spec.	35WGS094
Layout	35LYE2907
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-25-2024

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.12 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 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

NP3553LUA									
CAT.NO.	CEM3154T-G								
SPEC.	35E2907S094G1								
HP	1.5								
VOLTS	230/460								
AMPS	4.2/2.1								
RPM	1740								
FRAME	145TC	**HZ**	60			**PH**	3		
SF	1.15	**CODE**	K	**DES**	B	**CLASS**	F		
NEMA NOM. EFF	86.5	**PF**	77						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	**SN**							
DE	6205	**ODE**	6203						
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									
USABLE AT									

AC Induction Motor Performance Data
Record # 112123
Typical performance - not guaranteed values

Winding: 35WGS094-R007	**Type:** 3526M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	4.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			4.2/2.1	**Breakdown Torque**	19 LB-FT
R.P.M.			1740	**Pull-up Torque**	10.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	13.9 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	18.4 A
Service Factor (S.F.)			1.15	**No-load Current**	1.36 A
NEMA Nom. Eff.	86.5	**Power Factor**	77	**Line-line Res. @ 25ºC**	12.3 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	47°C
S.F. Amps				**Temp. Rise @ S.F. Load**	57°C
				Locked-rotor Power Factor	58.7
				Rotor inertia	0.188 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	53	67	76	82	86	80
Efficiency	76.6	84.5	86.4	86.8	86	84.7	86.3
Speed	1790	1781	1771	1761	1750	1737	1754
Line amperes	1.41	1.58	1.83	2.14	2.5	2.91	2.36

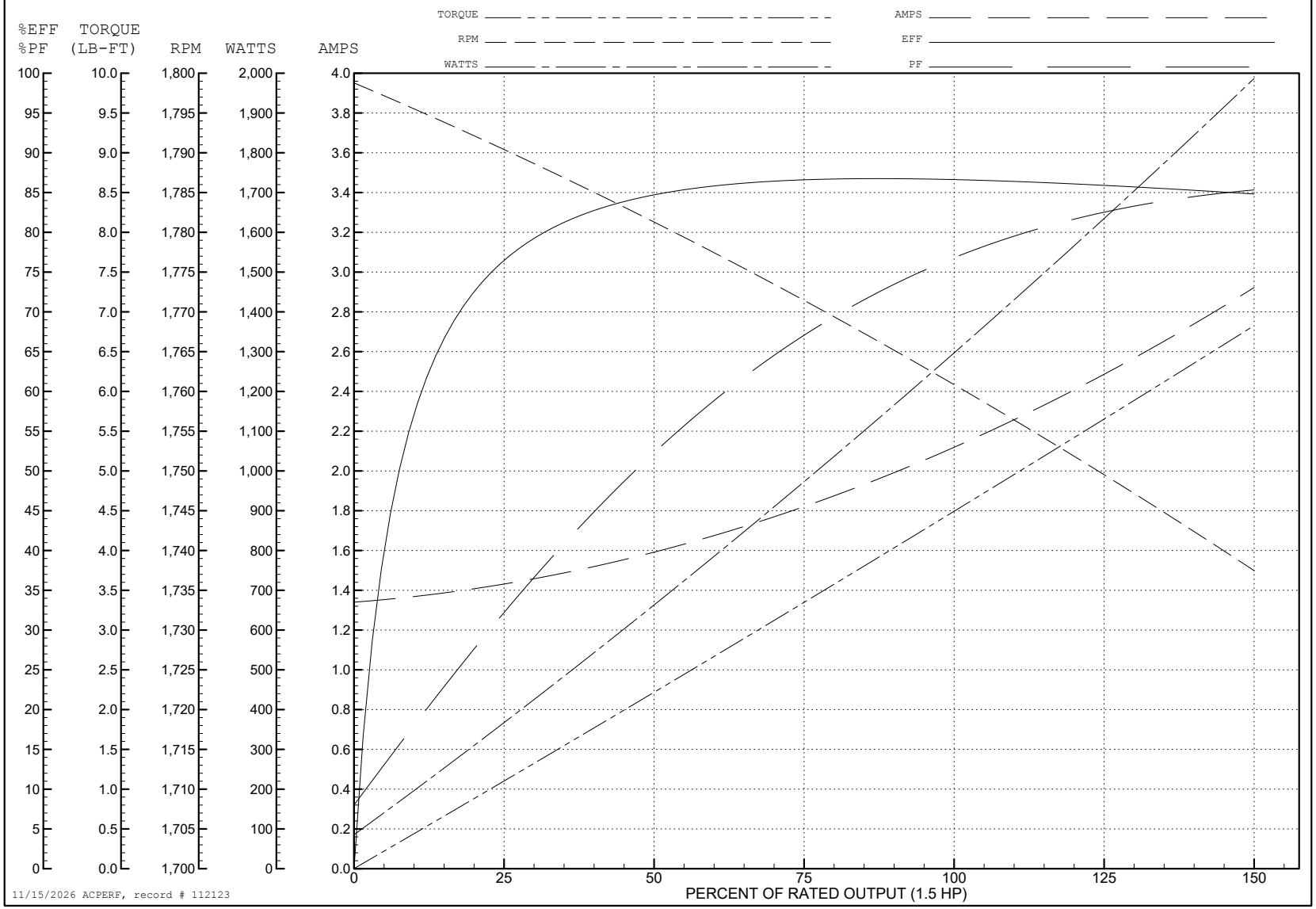
ABB Motors and Mechanical Inc.

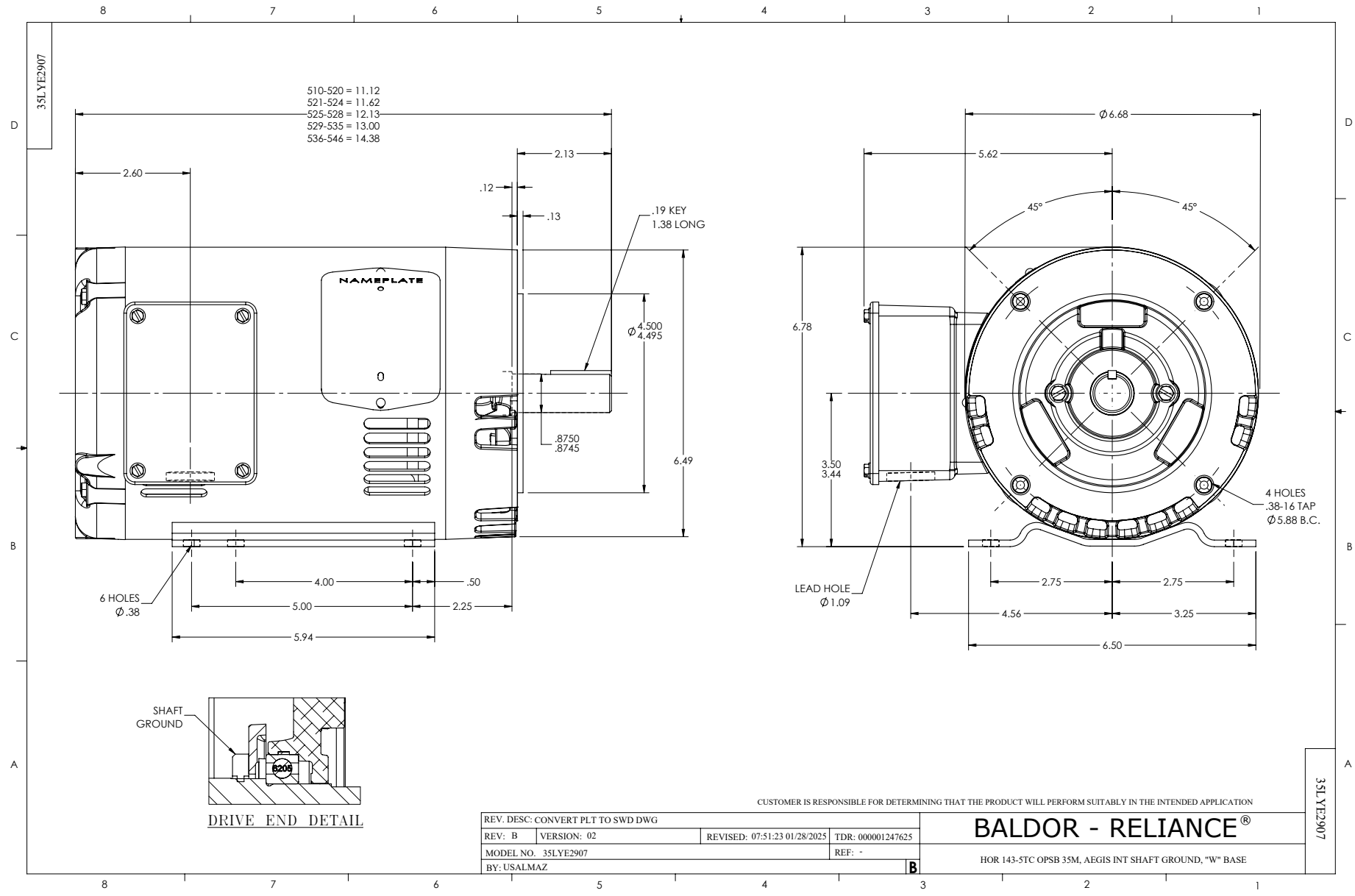
WINDING # 35WGS094

1.5 HP 3 PH 60 HZ 1740 RPM 460 V 3526M

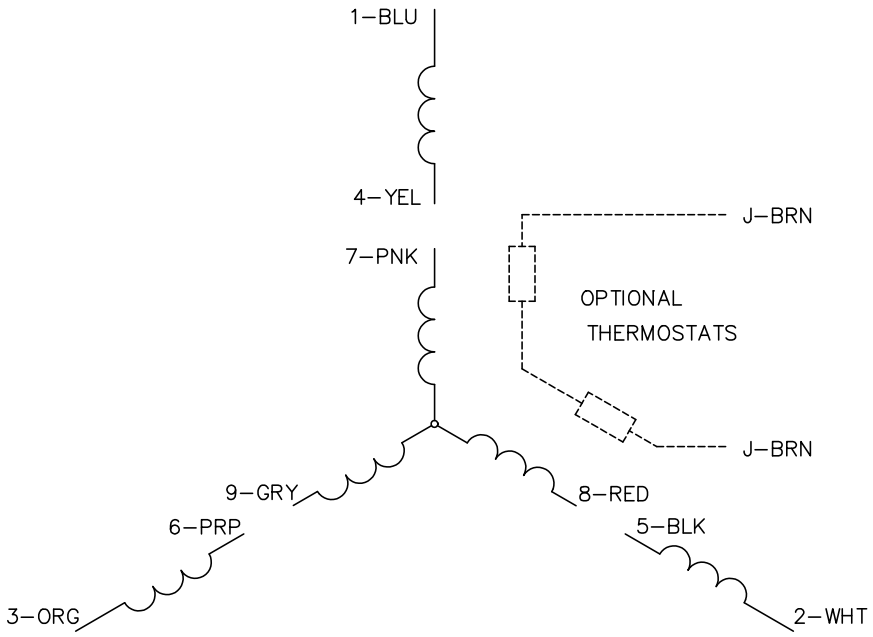
Typical performance - not guaranteed values.

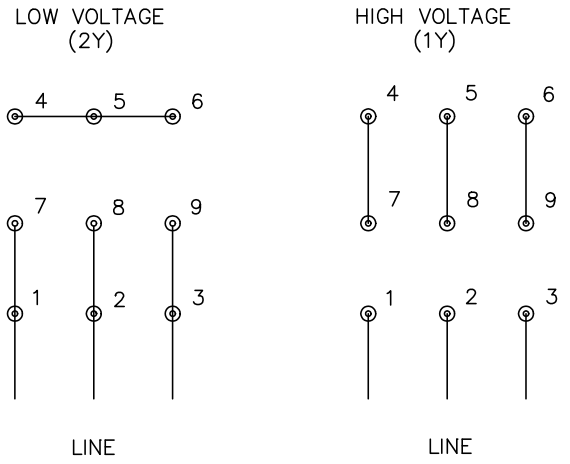
TORQUES(LB-FT): PO=19 PU=10.6 LR=13.9 LRA=18.4




35LYE2907
510-520 = 11.12
521-524 = 11.62
525-528 = 12.13
529-535 = 13.00
536-546 = 14.38
2.60
2.13
.12
.13
.19 KEY
1.38 LONG
NAMEPLATE
Ø 4.500
4.495
.8750
.8745
6.49
6 HOLES
Ø .38
4.00
.50
5.00
2.25
5.94
Ø 6.68
5.62
45°
45°
6.78
3.50
3.44
4 HOLES
.38-16 TAP
Ø 5.88 B.C.
LEAD HOLE
Ø 1.09
2.75
2.75
4.56
3.25
6.50
SHAFT
GROUND
6205
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT PLT TO SWD DWG
REV: B
VERSION: 02
REVISED: 07:51:23 01/28/2025
TDR: 000001247625
MODEL NO. 35LYE2907
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HOR 143-5TC OPSB 35M, AEGIS INT SHAFT GROUND, "W" BASE
35LYE2907

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS