BALDOR • RELIANCE

Customer information packet

GNEM31156-G

1HP//.75KW, 1170//965RPM, 3PH, 60//50HZ, 56
Class - None
Division - Not Applicable

12/22/2025 5:51:48 PM

Specifications

Enclosure	OPSB
Frame	56
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
	.750 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CE
	WEEE
	UKCA
	CURUSEEV
	IE3
	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	4.000 A @ 190.0 V
	3.600 A @ 208.0 V
	3.560 A @ 230.0 V
	2.000 A @ 380.0 V

Part detail

Revision	C
Type	AC
Mech. spec.	35Z946
Base	
Status	PRD/A
Elec. spec.	35WGG330
Layout	35LYZ946
Eff. date	05-08-2024
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	09-11-2023

	1.780 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.8 a
Insulation Class	F
Inverter Code	Inverter Duty
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	6
Overall Length	12.06 IN
Power Factor	64
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	0.625 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Speed	1170 rpm
	965 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

NP4304L									
CAT.NO.	GNEM31156-G								
SPEC.	35Z946G330G1								
HP	1HP//.75KW				**PH**	3			
VOLTS	208-230/460//190/380								
AMPS	3.6-3.56/1.78//4/2								
R.P.M. (1/MIN)	1170//965				**WT.**	18KG	**KG**		
FRAME	56	**HZ**	60//50		**I.P.**	22			
SER.F.	1.15	**CODE**	K	**DES.**	B	**CLASS**	H		
NOM.EFF.	82.5//78.9	**% (100%)**							
P.F.	64	IC01, 10:1 VT							
RATING	40C AMB-S1 CONT			**CC**	010A				
DE	6205	**ODE**	6203						
ENCL	OPSB	**SN**							
	SFA 4/2//4.6/2.3								
	IE3-50HZ 81.7(75%),81.0(50%)								
	IE3-60HZ 82.3(75%),80.1(50%)								

AC Induction Motor Performance Data
Record # 102723
Typical performance - not guaranteed values

Winding: 35WGG330-R015	**Type:** 3526M	**Enclosure:** OPSB

Nameplate Data			
Rated Output (HP)			1HP//.75KW
Volts			208-230/460//190/380
Full Load Amps			3.6-3.56/1.78//4/2
R.P.M.			1170//965
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	82.5	**Power Factor**	64
Rating - Duty			40C AMB-CONT
S.F. Amps			4/2//4.6/2.3

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	4.47 LB-FT
Start Configuration	direct on line
Breakdown Torque	13.2 LB-FT
Pull-up Torque	7.9 LB-FT
Locked-rotor Torque	9.7 LB-FT
Starting Current	10.2 A
No-load Current	1.19 A
Line-line Res. @ 25ºC	19.9 Ω
Temp. Rise @ Rated Load	48°C
Temp. Rise @ S.F. Load	57°C
Locked-rotor Power Factor	50.1
Rotor inertia	0.189 lb-ft²

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	43	55	64	70	73	68
Efficiency	70.2	80.1	82.3	82.5	81.5	79.4	81.9
Speed	1193	1187	1180	1172	1163	1153	1167
Line amperes	1.23	1.36	1.54	1.78	2.06	2.41	1.95

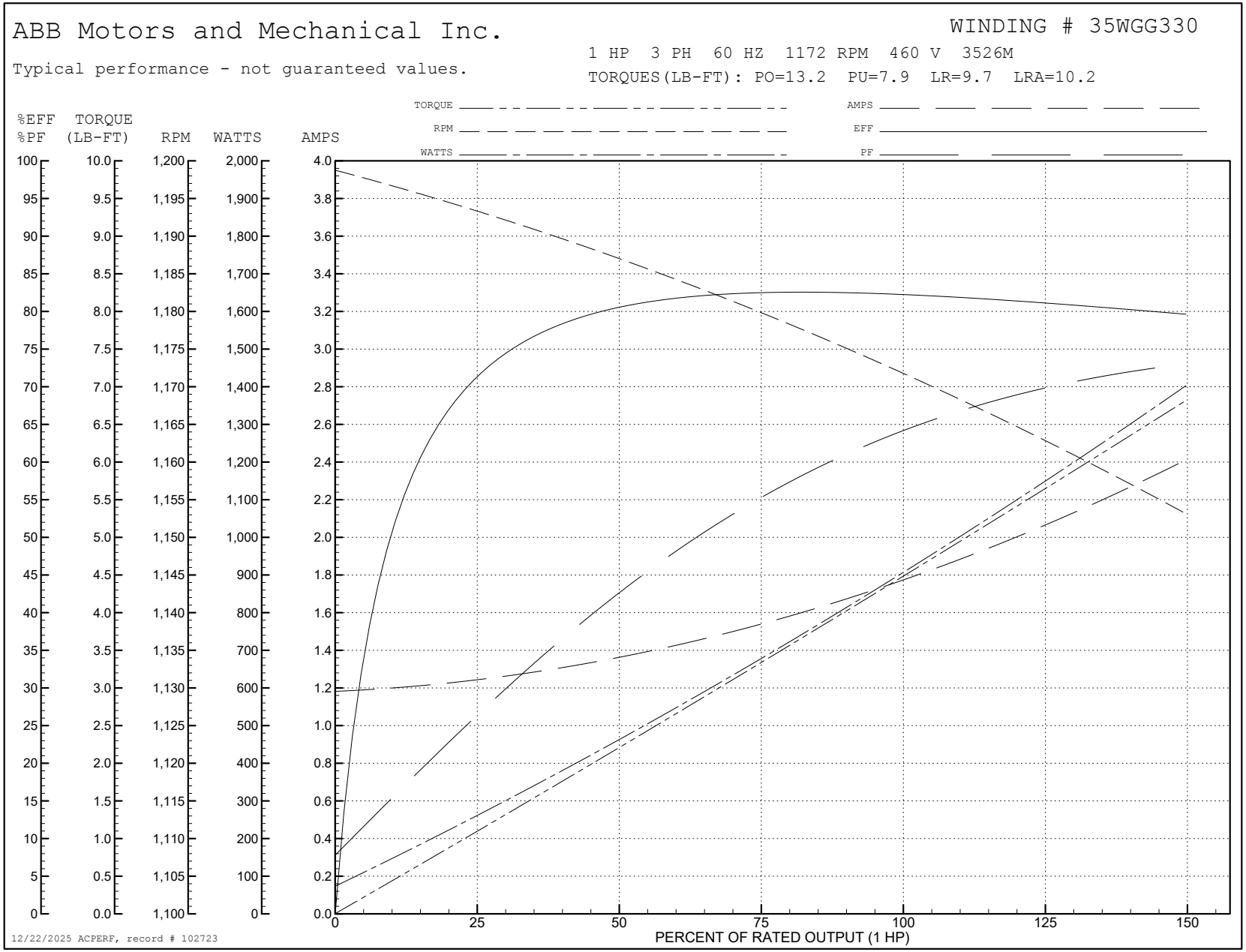


ABB Motors and Mechanical Inc.
WINDING # 35WGG330
1 HP 3 PH 60 HZ 1172 RPM 460 V 3526M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=13.2 PU=7.9 LR=9.7 LRA=10.2
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
12/22/2025 ACPERF, record # 102723

AC Induction Motor Performance Data
Record # 102724
Typical performance - not guaranteed values

Winding: 35WGG330-R015	**Type:** 3526M	**Enclosure:** OPSB

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			1HP//.75KW	**Full Load Torque**	5.42 LB-FT
Volts			208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			3.6-3.56/1.78//4/2	**Breakdown Torque**	12.2 LB-FT
R.P.M.			1170//965	**Pull-up Torque**	7.8 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	9.5 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	9.7 A
Service Factor (S.F.)			1.15	**No-load Current**	1.17 A
NEMA Nom. Eff.	82.5	**Power Factor**	64	**Line-line Res. @ 25ºC**	19.9 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	62°C
S.F. Amps			4/2//4.6/2.3	**Temp. Rise @ S.F. Load**	78°C
				Locked-rotor Power Factor	55.4
				Rotor inertia	0.189 lb-ft²

Load Characteristics 380 V, 50 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	50	62	70	75	77	73
Efficiency	72.9	81	81.7	80.6	78	74.1	79
Speed	992	985	976	966	954	938	959
Line amperes	1.22	1.4	1.66	2.01	2.43	2.98	2.26

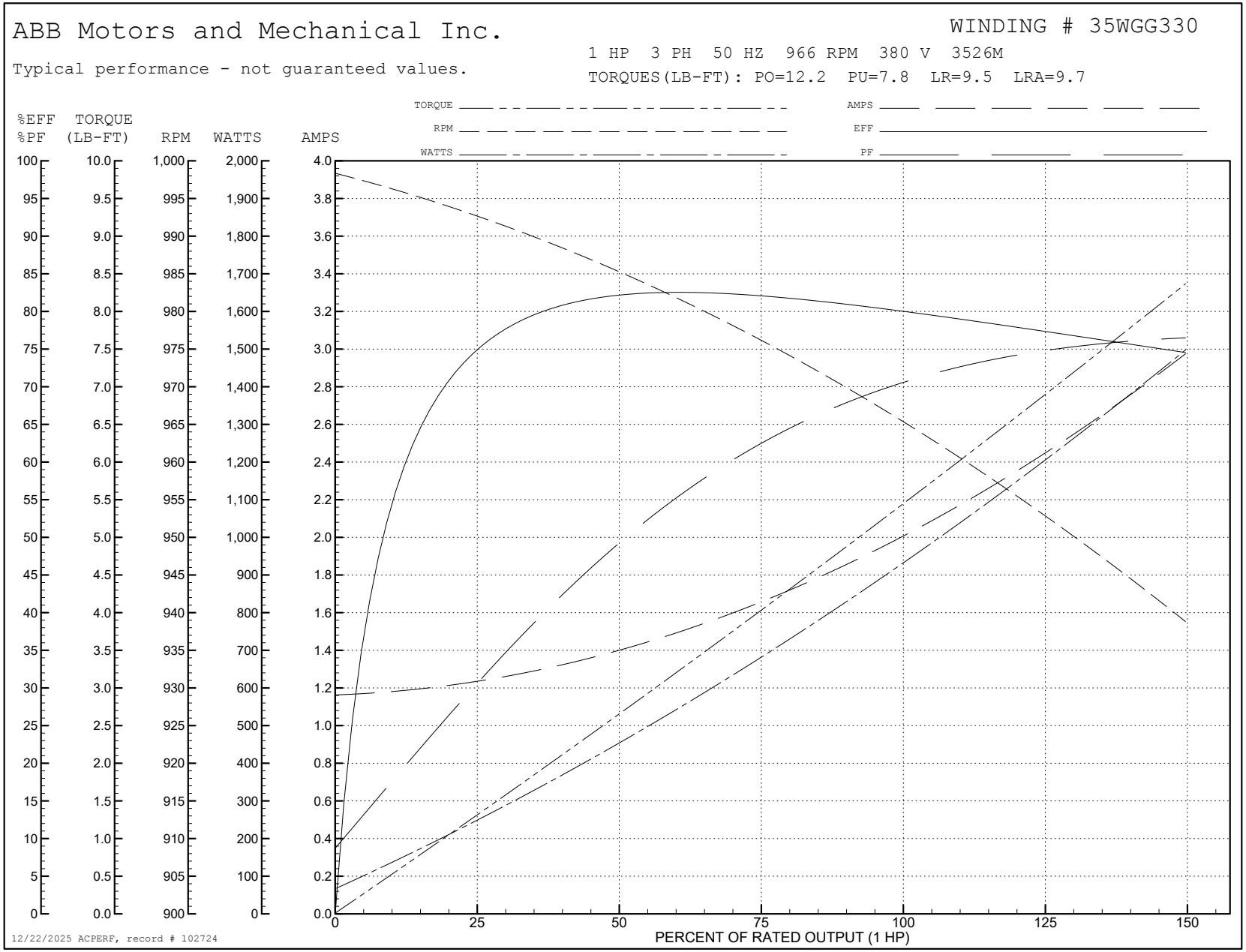
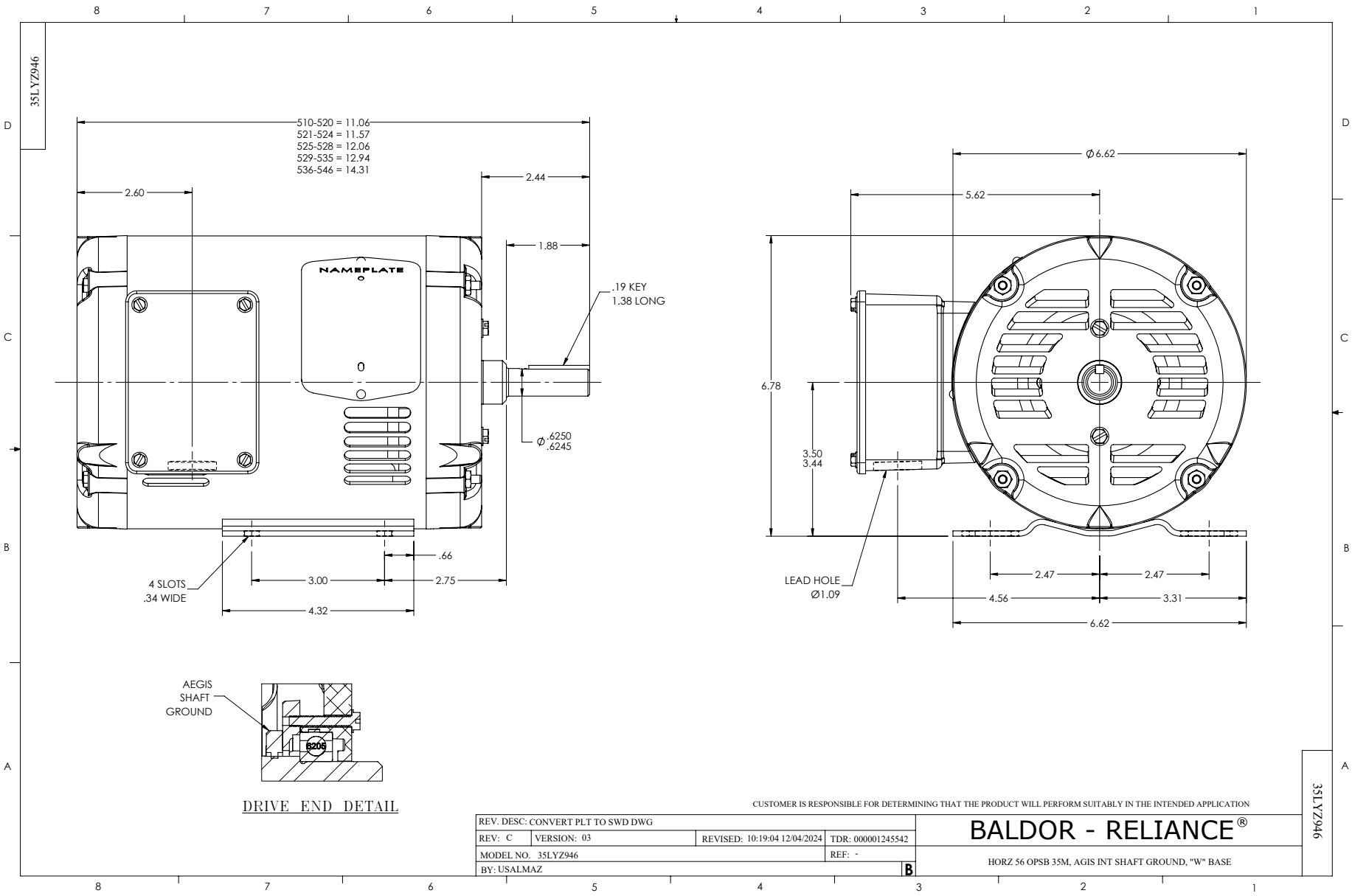
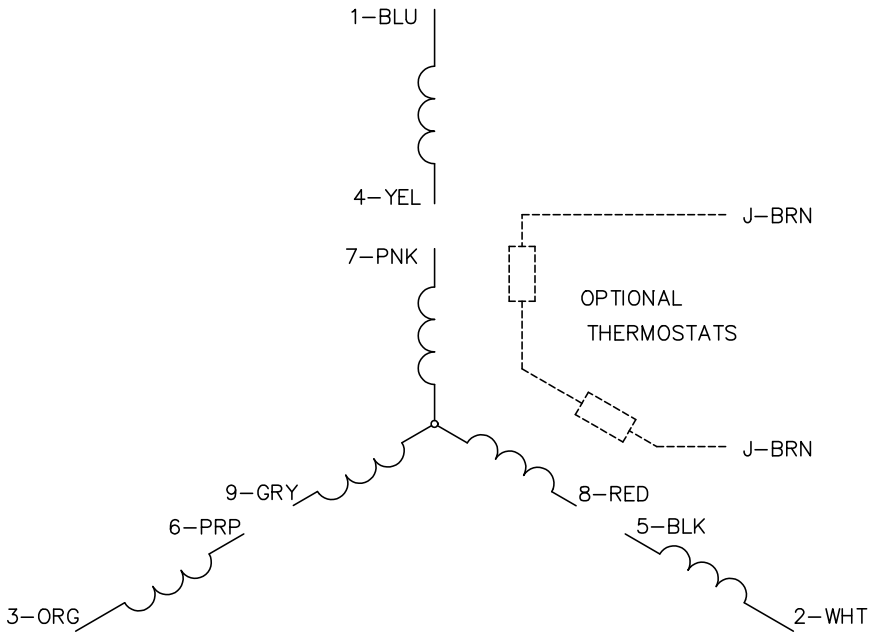
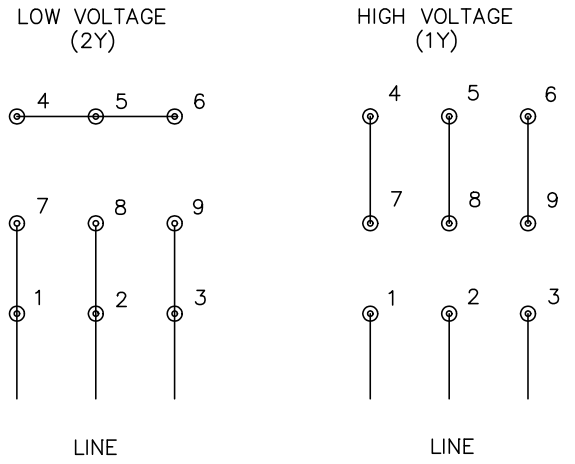


ABB Motors and Mechanical Inc.
WINDING # 35WGG330
1 HP 3 PH 50 HZ 966 RPM 380 V 3526M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=12.2 PU=7.8 LR=9.5 LRA=9.7
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
12/22/2025 ACPERF, record # 102724


35LYZ946
510-520 = 11.06
521-524 = 11.57
525-528 = 12.06
529-535 = 12.94
536-546 = 14.31
2.60
2.44
1.88
NAMEPLATE
.19 KEY
1.38 LONG
Ø .6250
.6245
4 SLOTS
.34 WIDE
.66
3.00
2.75
4.32
Ø 6.62
5.62
6.78
3.50
3.44
LEAD HOLE
Ø1.09
2.47
2.47
4.56
3.31
6.62
AEGIS
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: C
VERSION: 03
REVISED: 10:19:04 12/04/2024
TDR: 000001245542
MODEL NO. 35LYZ946
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ 56 OPSB 35M, AGIS INT SHAFT GROUND, "W" BASE
35LYZ946

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