ABB BALDOR RELIANCE

Customer information packet

GNEM31154

1.5/1.1KWHP, 1755//1445RPM, 3PH, 60//50HZ, 5
Class - None
Division - Not Applicable

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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	1.500 HP @ 60 HZ
	1.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	5.400 A @ 190.0 V
	4.600 A @ 230.0 V
	4.600 A @ 208.0 V

Part Detail

Revision	C
Type	AC
Mech. spec.	35L406
Base	
Status	PRD/A
Elec. spec.	35WGZ801
Layout	35LYL406
Eff. date	04-07-2025
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	08-23-2023

	2.700 A @ 380.0 V
	2.300 A @ 460.0 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	2.3 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.06 IN
Power Factor	80
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	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1445 rpm
	1755 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.	GNEM31154									
SPEC.	35L406Z801G1									
HP	1.5/1.1KW				**PH**	3				
VOLTS	208-230/460//190/380									
AMPS	4.6/2.3//5.4/2.7									
R.P.M. (1/MIN)	1755//1445				**WT.**	19KG	**KG**			
FRAME	56	**HZ**	60//50		**I.P.**	22				
SER.F.	1.15	**CODE**	K	**DES.**	B	**CLASS**	F			
NOM.EFF.	86.5//84.2	**% (100%)**								
P.F.	80	IC01, 10:1 VT								
RATING	40C AMB-S1 CONT			**CC**	010A					
DE	6205	**ODE**	6203							
ENCL	OPSB	**SN**								
	SFA 5.2-5/2.5//6/3									
	IE3-60HZ-86.3(75%),84.1(50%)									
	IE3-50HZ-85.5(75%),83.8(50%)									

AC Induction Motor Performance Data
Record # 100941
Preliminary Data Sheet

Winding: 35WGZ801-R038	**Type:** 3526M	**Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			1.5
Volts			208-230/460//190/380
Full Load Amps			4.6/2.3//5.4/2.7
R.P.M.			1755//1445
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	86.5	**Power Factor**	80
Rating - Duty			40C AMB-CONT
S.F. Amps			5.2-5/2.5//6/3

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	4.51 LB-FT
Start Configuration	direct on line
Breakdown Torque	21.49 LB-FT
Pull-up Torque	14.77 LB-FT
Locked-rotor Torque	18.15 LB-FT
Starting Current	20.62 A
No-load Current	1.45 A
Line-line Res. @ 25ºC	9.85 Ω
Temp. Rise @ Rated Load	41°C
Temp. Rise @ S.F. Load	48°C
Locked-rotor Power Factor	62.7
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	32	50	63	72	78	82	76
Efficiency	75.2	84.1	86.3	86.7	86.2	85	86.4
Speed	1788	1777	1766	1754	1741	1727	1746
Line amperes	1.52	1.69	1.95	2.26	2.63	3.05	2.48

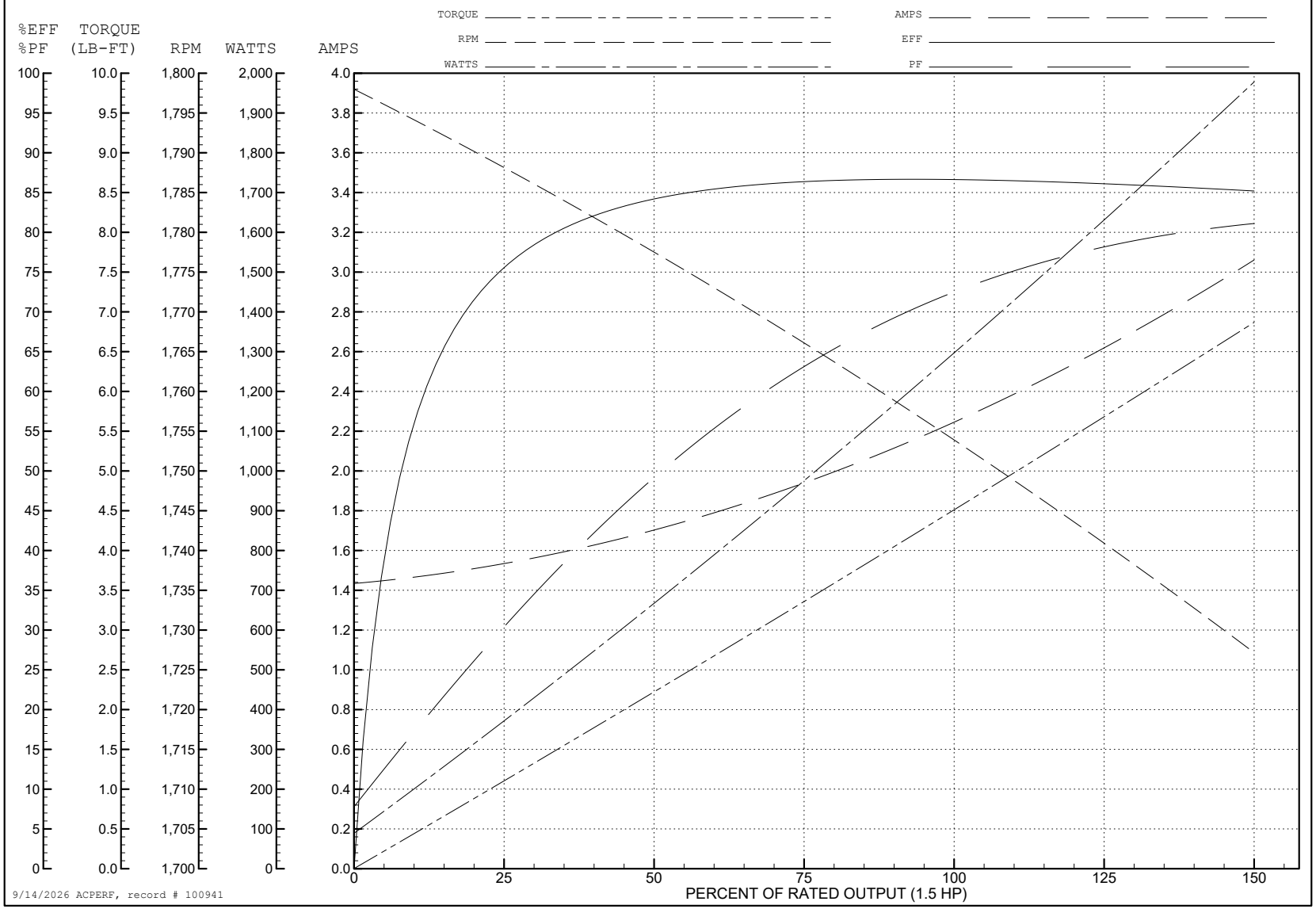
ABB Motors and Mechanical Inc.

WINDING # 35WGZ801

1.5 HP 3 PH 60 HZ 1754 RPM 460 V 3526M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=21.49 PU=14.77 LR=18.15 LRA=20.62



AC Induction Motor Performance Data
Record # 100942
Typical performance - not guaranteed values

Winding: 35WGZ801-R038	**Type:** 3526M	**Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			1.5
Volts			208-230/460//190/380
Full Load Amps			4.6/2.3//5.4/2.7
R.P.M.			1755//1445
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	86.5	**Power Factor**	80
Rating - Duty			40C AMB-CONT
S.F. Amps			5.2-5/2.5//6/3

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	5.45 LB-FT
Start Configuration	direct on line
Breakdown Torque	20.8 LB-FT
Pull-up Torque	16.9 LB-FT
Locked-rotor Torque	18.1 LB-FT
Starting Current	19 A
No-load Current	1.64 A
Line-line Res. @ 25ºC	9.85 Ω
Temp. Rise @ Rated Load	57°C
Temp. Rise @ S.F. Load	70°C
Locked-rotor Power Factor	68.1
Rotor inertia	0.188 lb-ft²

Load Characteristics 380 V, 50 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	53	67	75	81	84	79
Efficiency	76.1	83.8	85.5	85.1	83.8	81.8	84.3
Speed	1488	1475	1460	1445	1428	1409	1435
Line amperes	1.71	1.92	2.24	2.66	3.14	3.71	2.95

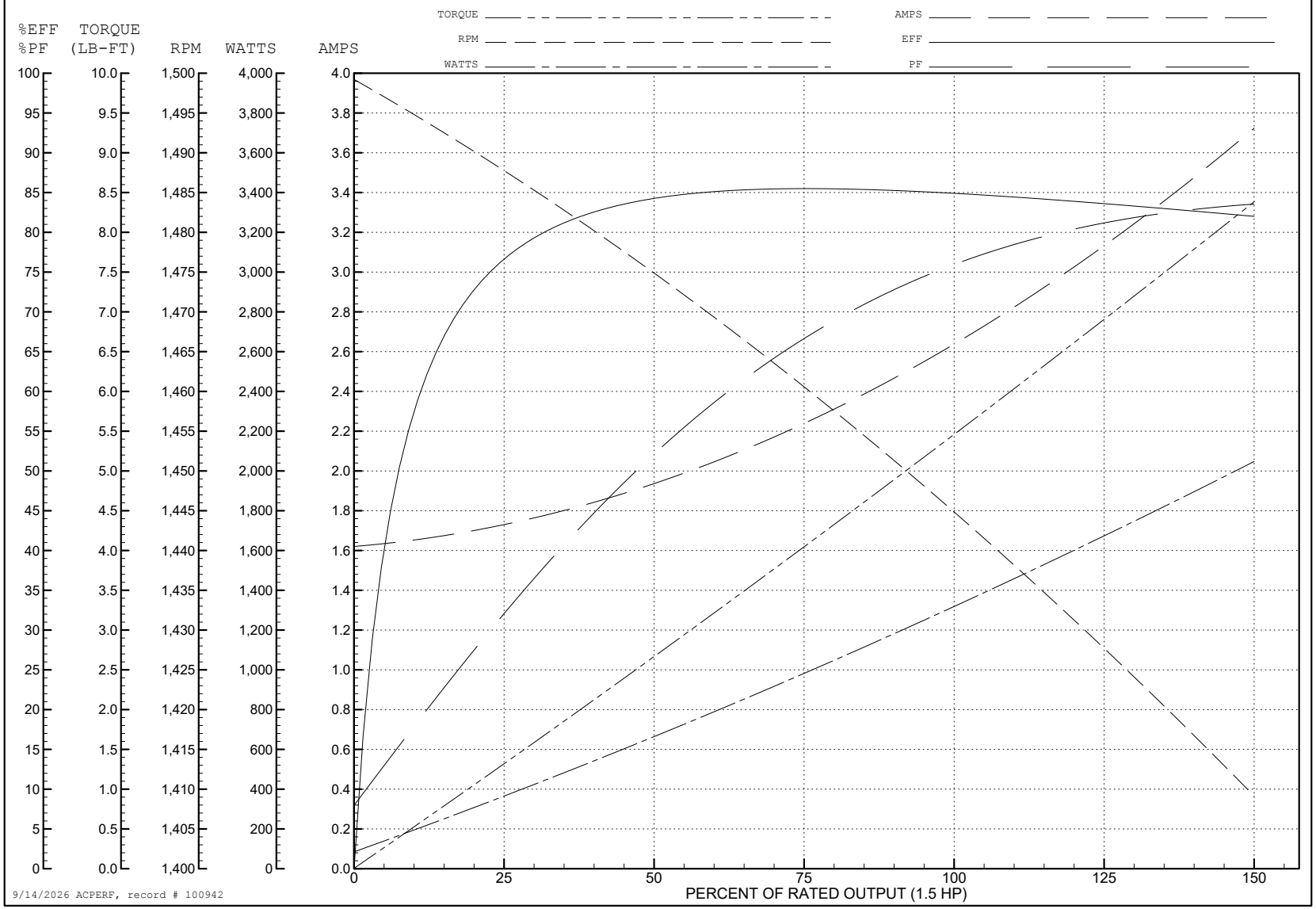
ABB Motors and Mechanical Inc.

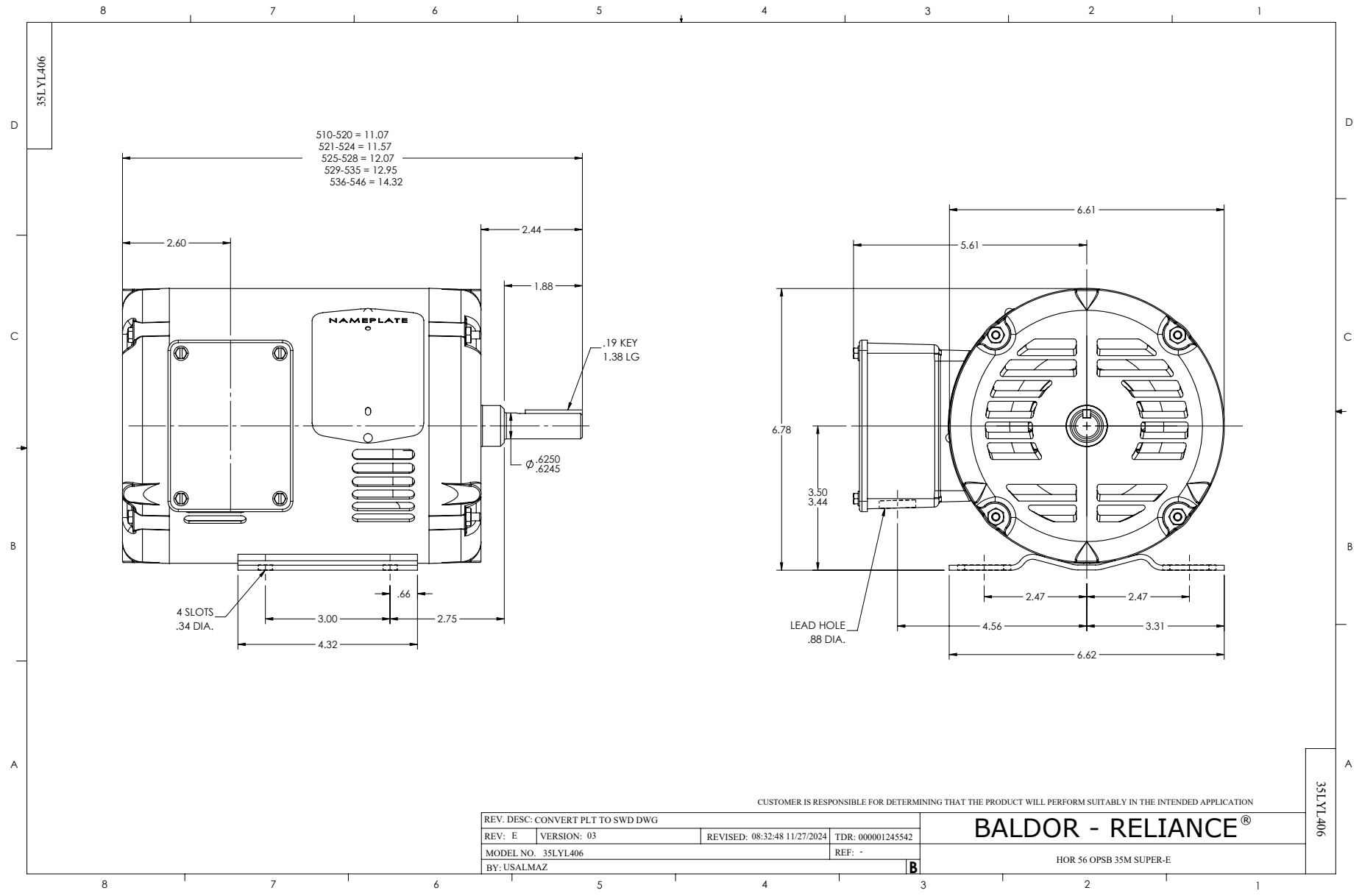
WINDING # 35WGZ801

1.5 HP 3 PH 50 HZ 1445 RPM 380 V 3526M

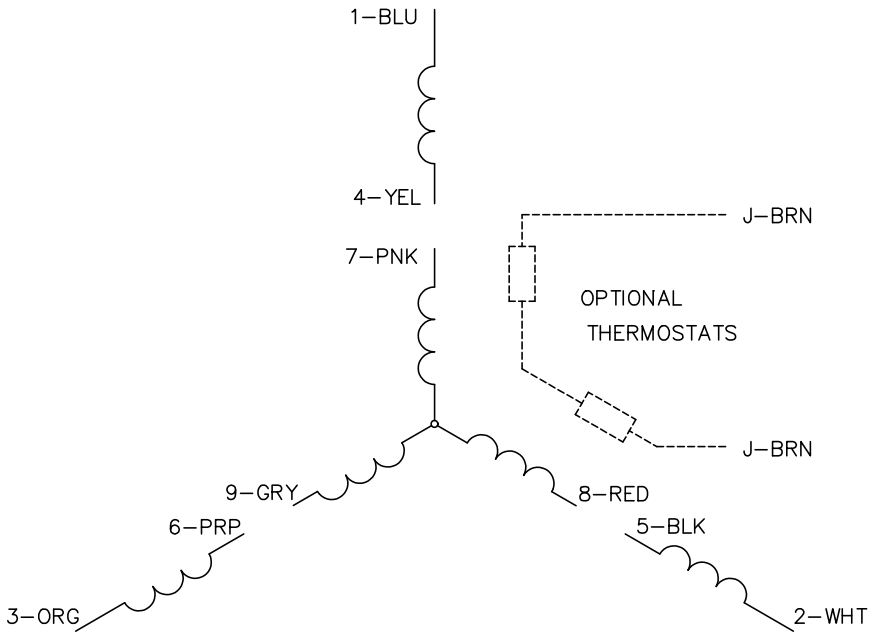
Typical performance - not guaranteed values.

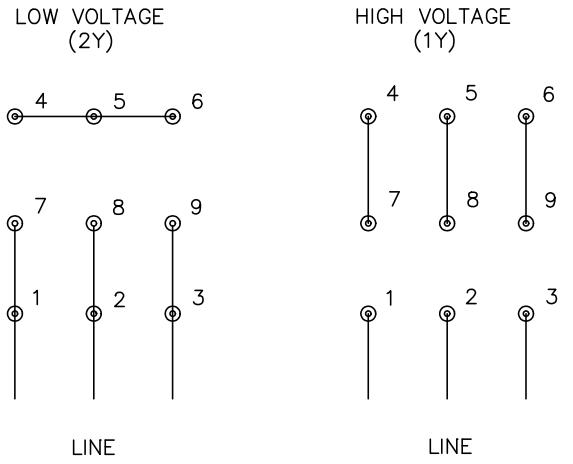
TORQUES(LB-FT): PO=20.8 PU=16.9 LR=18.1 LRA=19




35LYL406
510-520 = 11.07
521-524 = 11.57
525-528 = 12.07
529-535 = 12.95
536-546 = 14.32
2.60
2.44
1.88
NAMEPLATE
.19 KEY
1.38 LG
Ø .6250
.6245
4 SLOTS
.34 DIA.
.66
3.00
2.75
4.32
6.61
5.61
6.78
3.50
3.44
LEAD HOLE
.88 DIA.
2.47
2.47
4.56
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT PLT TO SWD DWG
REV: E
VERSION: 03
REVISED: 08:32:48 11/27/2024
TDR: 000001245542
MODEL NO. 35LYL406
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HOR 56 OPSB 35M SUPER-E
35LYL406

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