ABB BALDOR RELIANCE

Customer information packet

M1221T

1.5/.67HP, 1725/1140RPM, 3PH, 60HZ, 182T
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	182T
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
	.670 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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	2.200 A @ 460.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.4 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H

Part Detail

Revision	AD
Type	AC
Mech. spec.	36B001
Base	
Status	PRD/A
Elec. spec.	36WG0456
Layout	36LYB001
Eff. date	10-30-2025
CD Diagram	CD0013
Poles	04/06
Leads	6#16
Proprietary	False
Created date	01-01-0001

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3623M
Mounting Arrangement	F1
Number of Poles	4
	6
Overall Length	13.62 IN
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	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1140 rpm
	1725 rpm
Speed Code	2S-2W-VT
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

NP1256L									
CAT.NO.	M1221T								
SPEC.	36B01-456								
HP	1.5/.67								
VOLTS	460								
AMP	2.2/1.4								
RPM	1725/1140								
FRAME	182T		**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	H	**DES**	-	**CLASS**		F	
NEMA-NOM-EFF		**PF**							
RATING	40C AMB-CONT								
CC									
DE	6206		**ODE**	6205					
ENCL	OPEN	**SN**							

Accessories

Part number	Description	Multiplier
36-3403	C FACE KIT	A8
36EP1405A09SP	D-FLANGE KIT	

AC Induction Motor Performance Data
Record # 61306
Typical performance - not guaranteed values

Winding: 36WG0456-R002	**Type:** 3623M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)		1.5/.67	**Full Load Torque**	4.6 LB-FT
Volts		460	**Start Configuration**	direct on line
Full Load Amps		2.2/1.4	**Breakdown Torque**	16 LB-FT
R.P.M.		1725/1140	**Pull-up Torque**	9 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	14 LB-FT
NEMA Design Code	- **KVA Code**	H	**Starting Current**	12.3 A
Service Factor (S.F.)		1.15	**No-load Current**	1 A
NEMA Nom. Eff.	0 **Power Factor**	0	**Line-line Res. @ 25ºC**	20.3 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	28°C
S.F. Amps			**Temp. Rise @ S.F. Load**	35°C
			Locked-rotor Power Factor	73.9
			Rotor inertia	0.216 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	72	85	85	87	89	86
Efficiency	67	76.8	79	78.7	76.9	73.9	77.6
Speed	1779	1760	1739	1715	1687	1653	1698
Line amperes	1.1	1.3	1.6	2.1	2.6	3.1	2.4

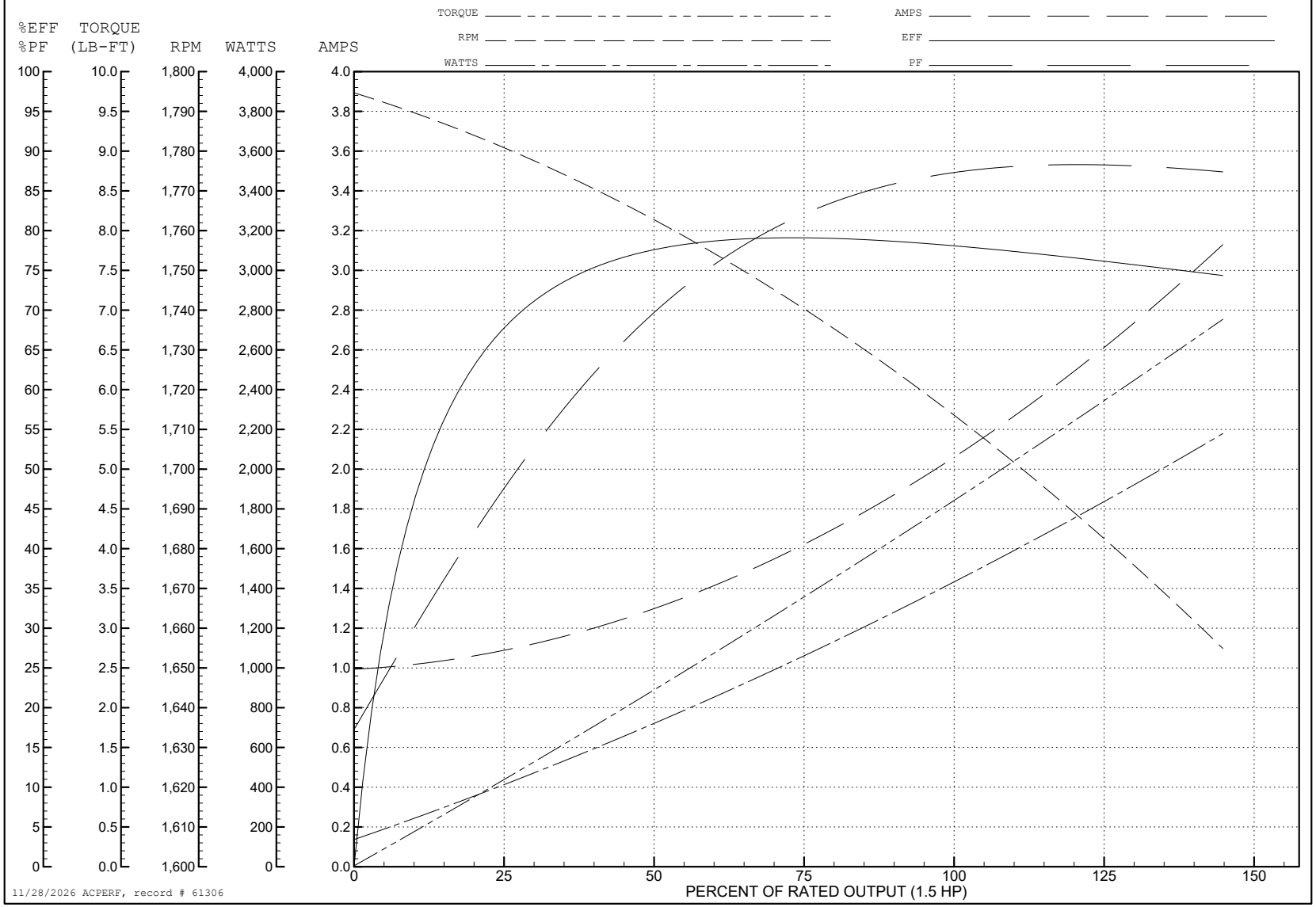
ABB Motors and Mechanical Inc.

WINDING # 36WG0456

1.5 HP 3 PH 60 HZ 1715 RPM 460 V 3623M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=16 PU=9 LR=14 LRA=12.3



11/28/2026 ACPERF, record # 61306

AC Induction Motor Performance Data
Record # 61307
Typical performance - not guaranteed values

Winding: 36WG0456-R002	**Type:** 3623M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: Low Speed Connection**	
Rated Output (HP)		1.5/.67	**Full Load Torque**	3 LB-FT
Volts		460	**Start Configuration**	direct on line
Full Load Amps		2.2/1.4	**Breakdown Torque**	10 LB-FT
R.P.M.		1725/1140	**Pull-up Torque**	5.5 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	7 LB-FT
NEMA Design Code	- **KVA Code**	H	**Starting Current**	6.5 A
Service Factor (S.F.)		1.15	**No-load Current**	1.1 A
NEMA Nom. Eff.	0 **Power Factor**	0	**Line-line Res. @ 25ºC**	35.2 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	26°C
S.F. Amps			**Temp. Rise @ S.F. Load**	29°C
			Locked-rotor Power Factor	72.8
			Rotor inertia	0.216 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.67 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	43	57	67	71	79	69
Efficiency	46.1	61.5	68.4	71.5	72.7	72.7	72.2
Speed	1190	1181	1173	1163	1152	1140	1156
Line amperes	1.1	1.2	1.2	1.3	1.5	1.6	1.42

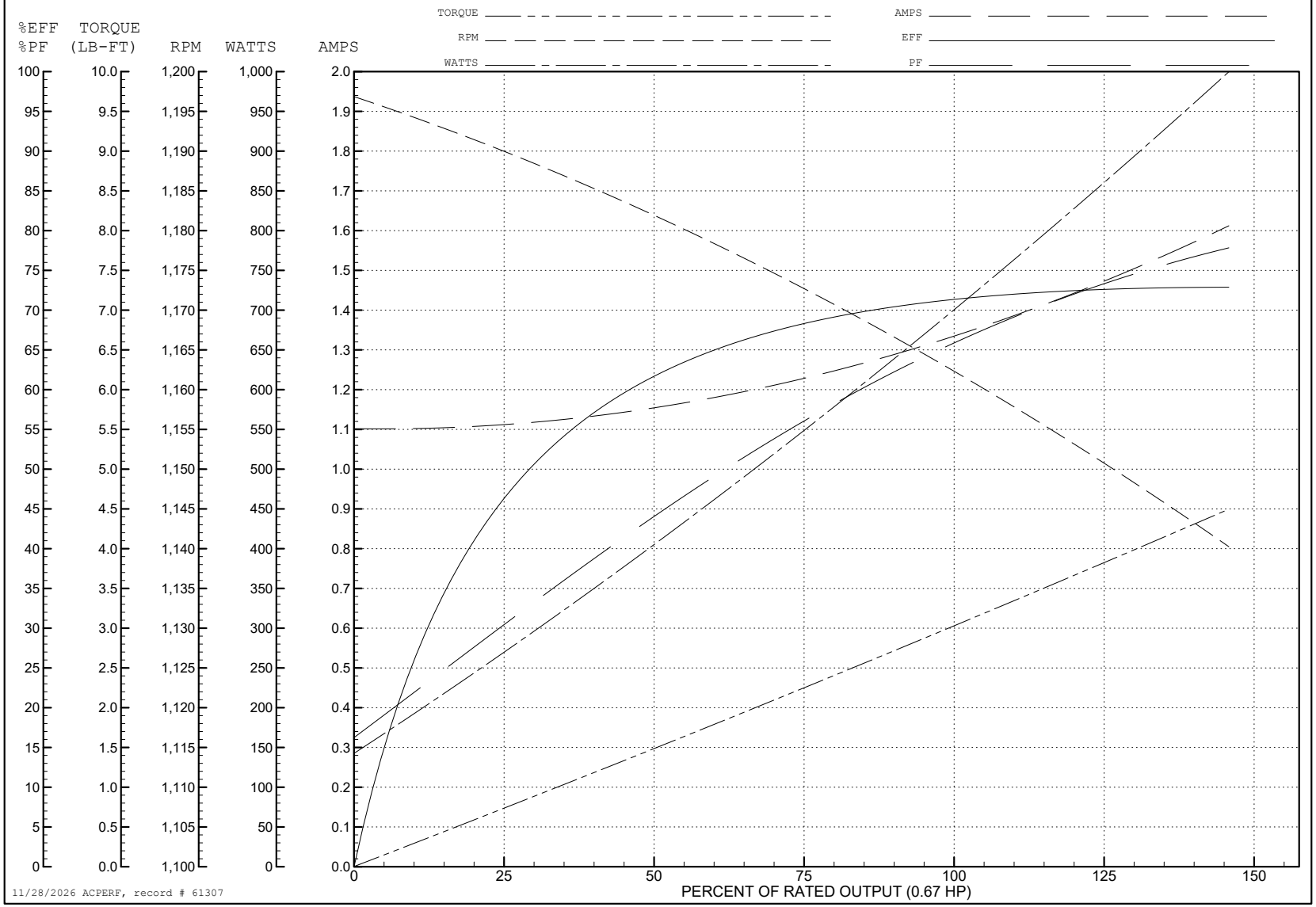
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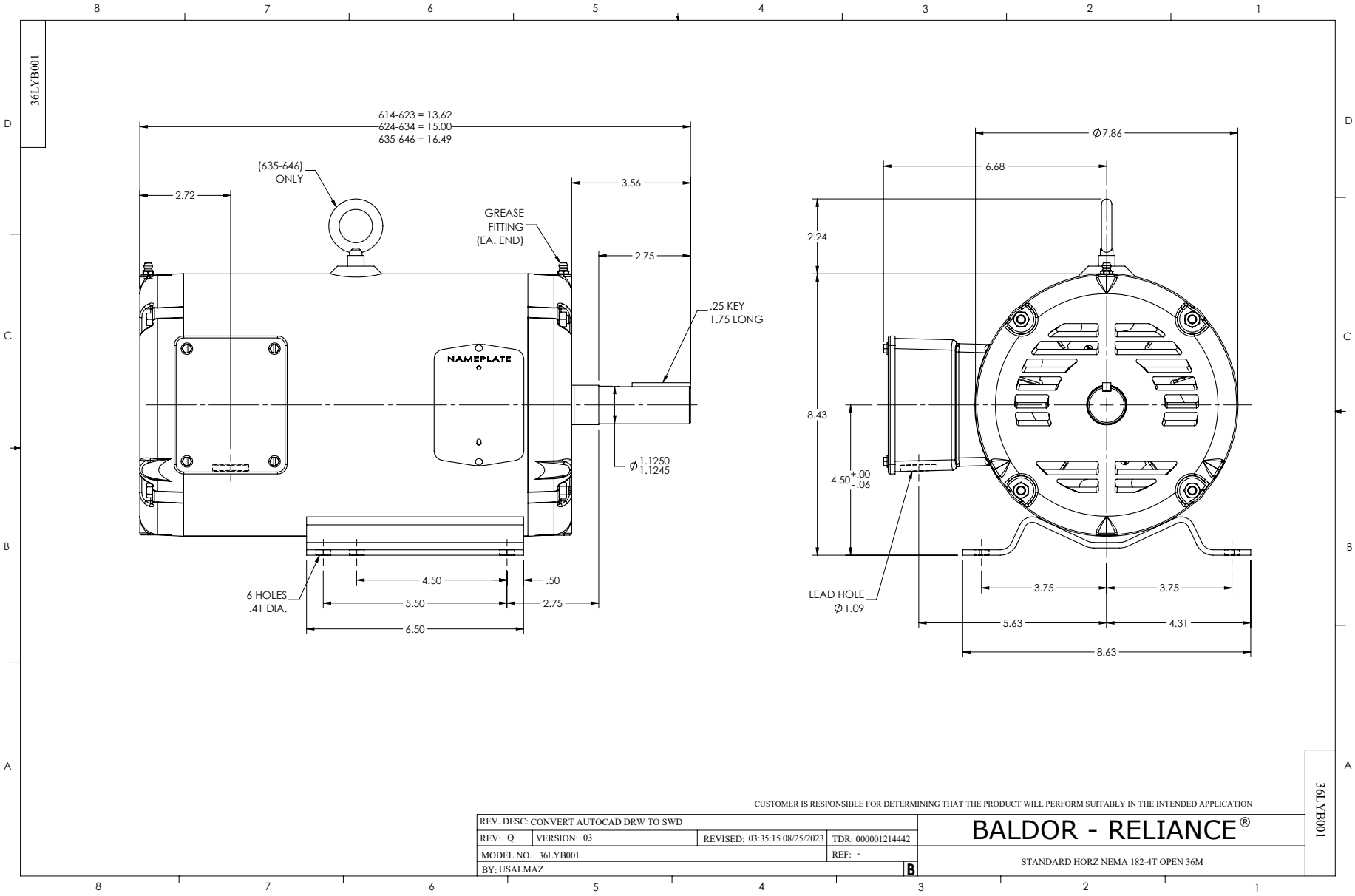
WINDING # 36WG0456

0.67 HP 3 PH 60 HZ 1163 RPM 460 V 3623M

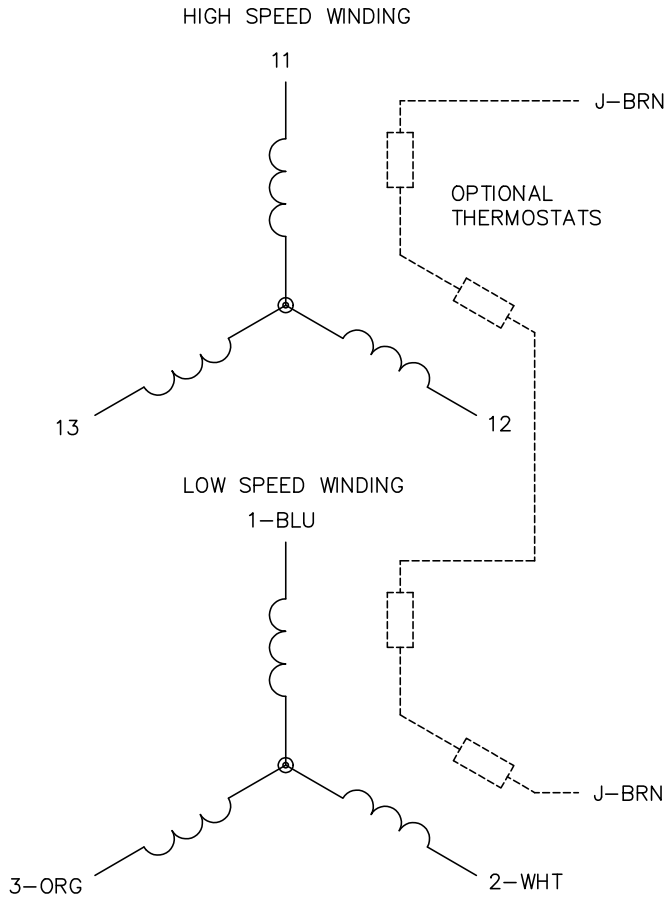
Typical performance - not guaranteed values.

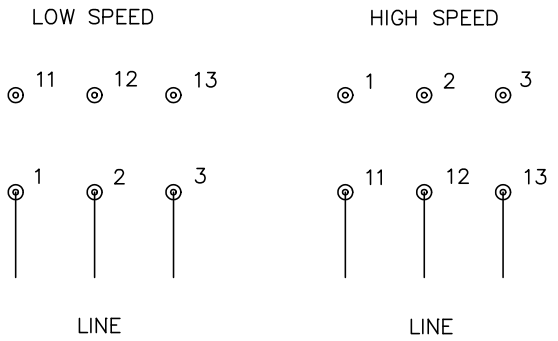
TORQUES(LB-FT): PO=10 PU=5.5 LR=7 LRA=6.5




36LYB001
614-623 = 13.62
624-634 = 15.00
635-646 = 16.49
(635-646) ONLY
2.72
3.56
GREASE FITTING (EA. END)
2.75
.25 KEY 1.75 LONG
NAMEPLATE
Ø 1.1250 1.1245
6 HOLES .41 DIA.
4.50
.50
5.50
2.75
6.50
Ø7.86
6.68
2.24
8.43
4.50 +.00 -.06
LEAD HOLE Ø 1.09
3.75
3.75
5.63
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: Q
VERSION: 03
REVISED: 03:35:15 08/25/2023
TDR: 000001214442
MODEL NO. 36LYB001
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STANDARD HORZ NEMA 182-4T OPEN 36M
36LYB001

CD0013





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 VARY.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 01/22/99 8:50	TDR: 0171435
CD0013		FILE: AAA00005143	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 2–WINDING

CD0013