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**						

Parts List

Part number	Description	Quantity
SA034197	SA 36B01-456	1.000 ea
RA030225	RA 36B01-456	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP3204B00	MASTER ODE,205 BRG,GRSR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3205D00	MASTER DE,206 BRG,1.197SH,GRSR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.022 ga
HA3101A23	THRUBOLT 1/4-20 X 9.625 DEMBY	4.000 ea
LC0013	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

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

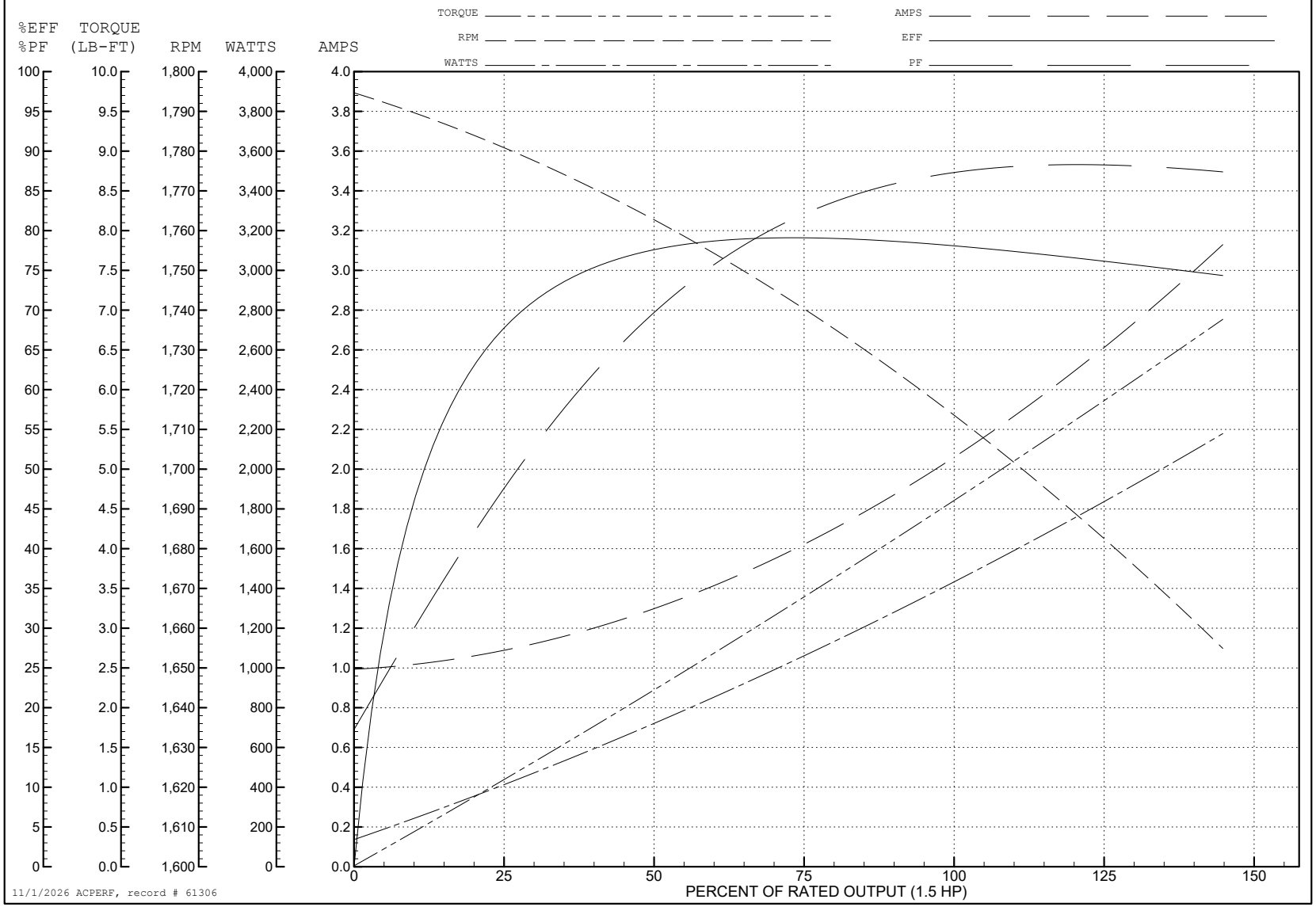
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WINDING # 36WG0456

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



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

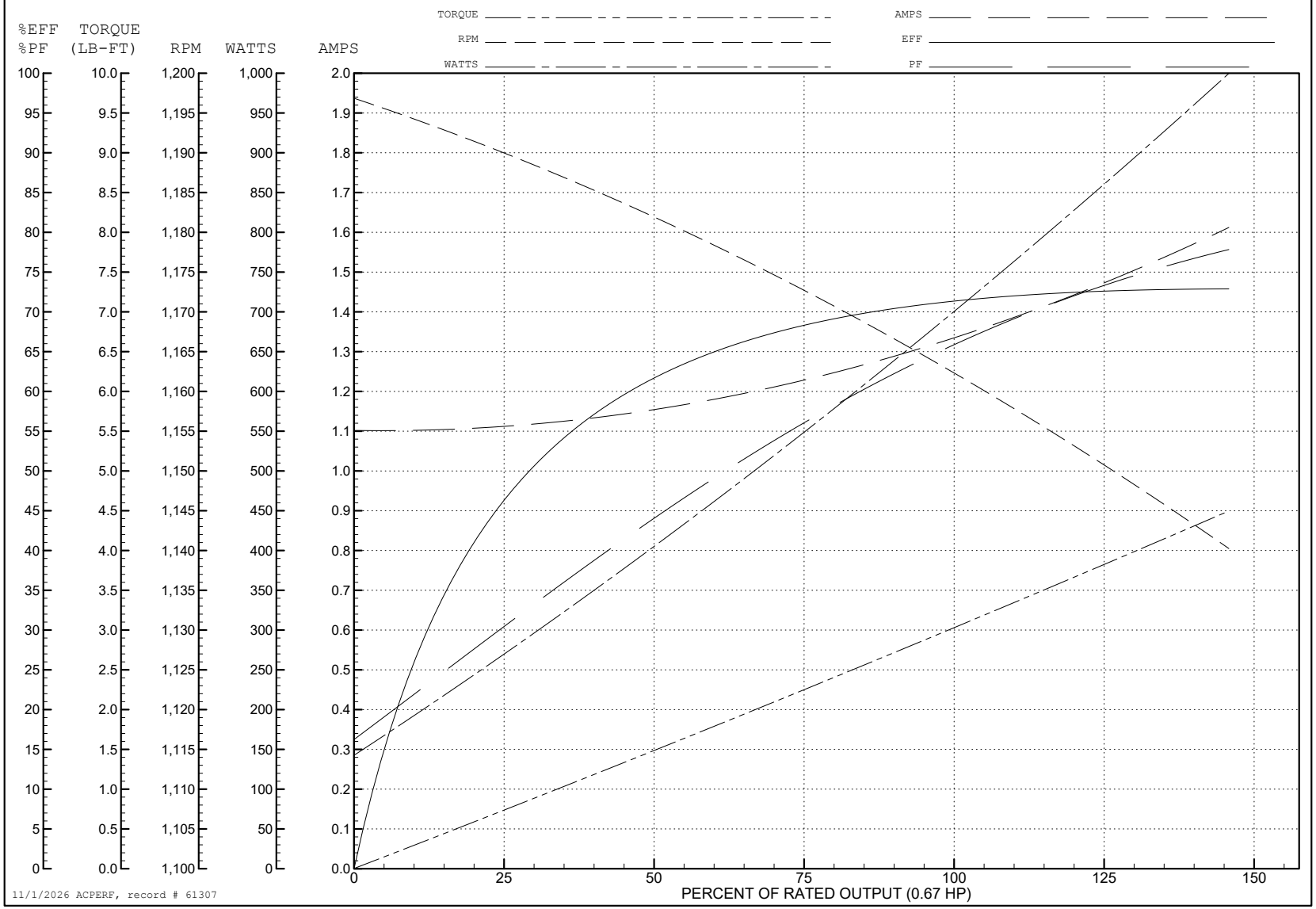
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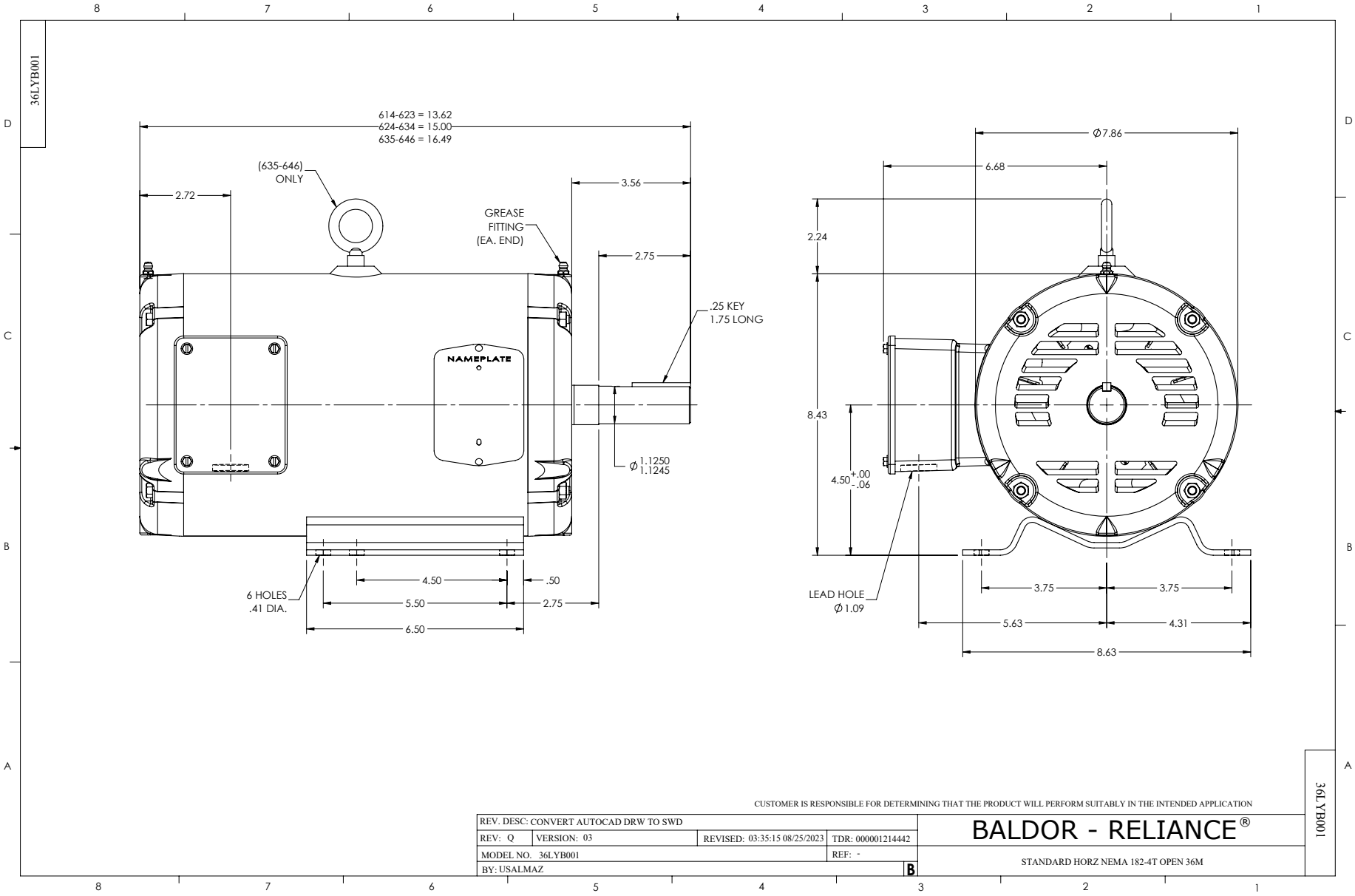
WINDING # 36WG0456

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

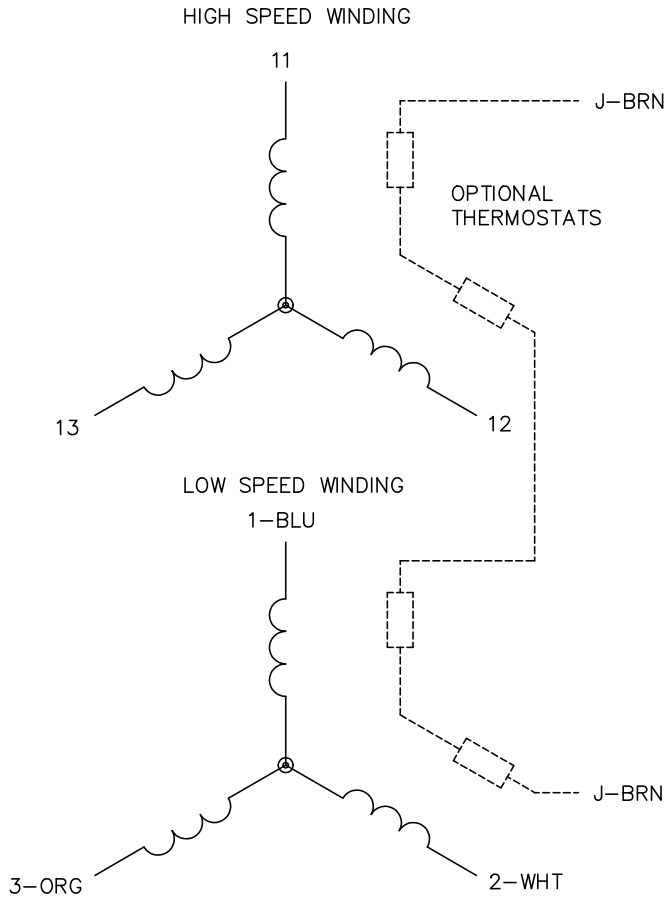
Typical performance - not guaranteed values.

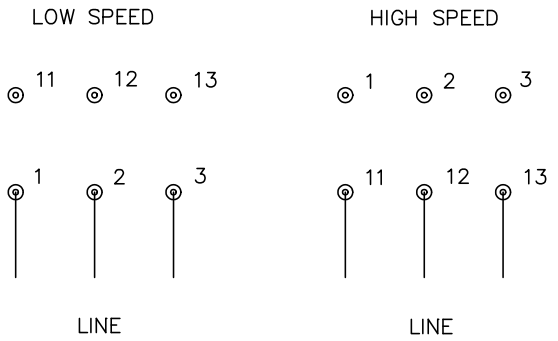
TORQUES(LB-FT): PO=10 PU=5.5 LR=7 LRA=6.5




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