BALDOR • RELIANCE

Customer information packet

M1521T

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

5/29/2024 11:30:54 PM

Specifications

Enclosure	TEFC
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	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.800 A @ 230.0 V
	4.400 A @ 208.0 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	2.8 a
Insulation Class	F

Part detail

Revision	AA
Type	AC
Mech. spec.	36A001
Base	
Status	PRD/A
Elec. spec.	36WG0450
Layout	36LYA001
Eff. date	05-08-2024
CD Diagram	CD0013
Poles	04/06
Leads	6#16
Proprietary	False
Created date	01-01-0001

Inverter Code	Not Inverter
KVA Code	H
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	15.17 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.	M1521T									
SPEC.	36A01-450									
HP	1.5/.67									
VOLTS	208-230									
AMP	4.4/2.8									
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	TEFC	**SN**								

Accessories

Part number	Description	Multiplier
36-3301	C FACE KIT	A8
36EP1304A62SP	FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS	A8

AC Induction Motor Performance Data
Record # 61294
Typical performance - not guaranteed values

Winding: 36WG0450-R002	**Type:** 3623M	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Speed Connection**	
Rated Output (HP)			1.5/.67	**Full Load Torque**	4.6 LB-FT
Volts			208-230	**Start Configuration**	direct on line
Full Load Amps			4.4/2.8	**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**	24.5 A
Service Factor (S.F.)			1.15	**No-load Current**	2 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	5.04 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	73.7
				Rotor inertia	0.216 LB-FT2

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	72	82	87	88	89	88
Efficiency	67	76.8	79	78.7	76.9	73.9	77.6
Speed	1779	1760	1739	1715	1687	1653	1698
Line amperes	2.2	2.6	3.3	4.1	5.1	6.2	4.7

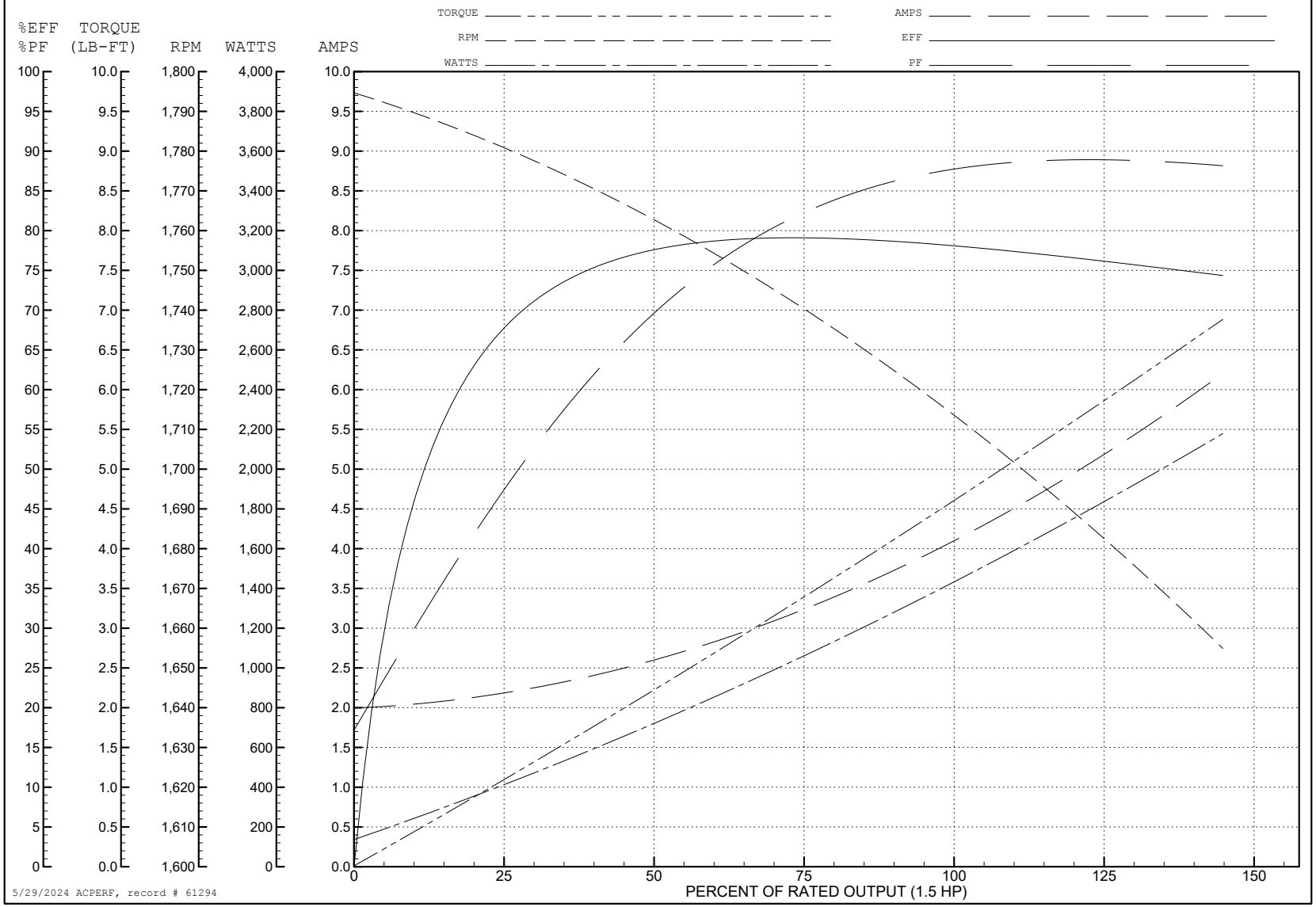
ABB Motors and Mechanical Inc.

WINDING # 36WG0450

1.5 HP 3 PH 60 HZ 1715 RPM 230 V 3623M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=16 PU=9 LR=14 LRA=24.5



AC Induction Motor Performance Data
Record # 61295
Typical performance - not guaranteed values

Winding: 36WG0450-R002	**Type:** 3623M	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: Low Speed Connection**	
Rated Output (HP)			1.5/.67	**Full Load Torque**	3 LB-FT
Volts			208-230	**Start Configuration**	direct on line
Full Load Amps			4.4/2.8	**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**	13 A
Service Factor (S.F.)			1.15	**No-load Current**	2.2 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	8.76 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	72.7
				Rotor inertia	0.216 LB-FT2

Load Characteristics 230 V, 60 Hz, 0.67 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	45	55	64	71	76	68
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	2.2	2.3	2.5	2.7	3	3.3	2.88

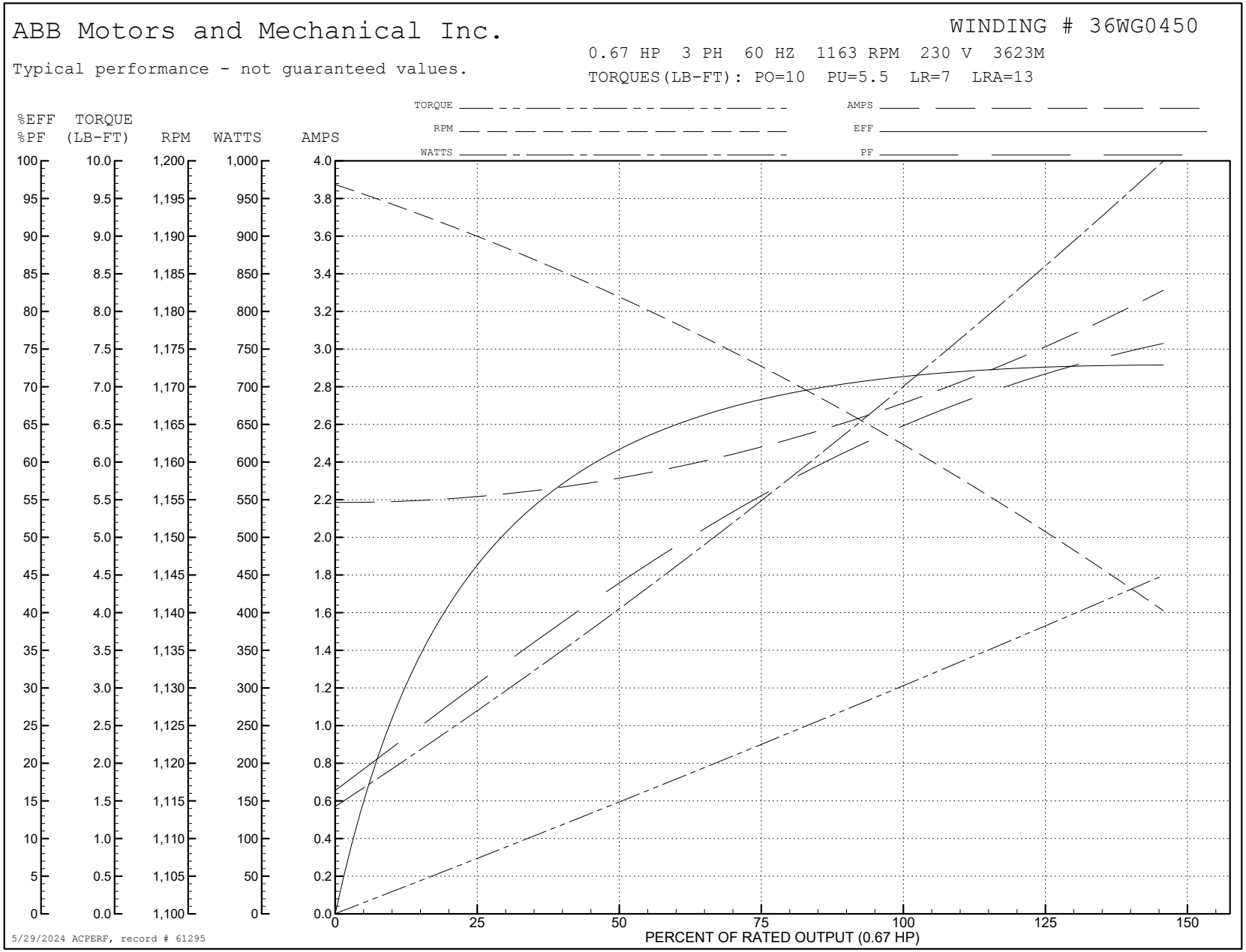
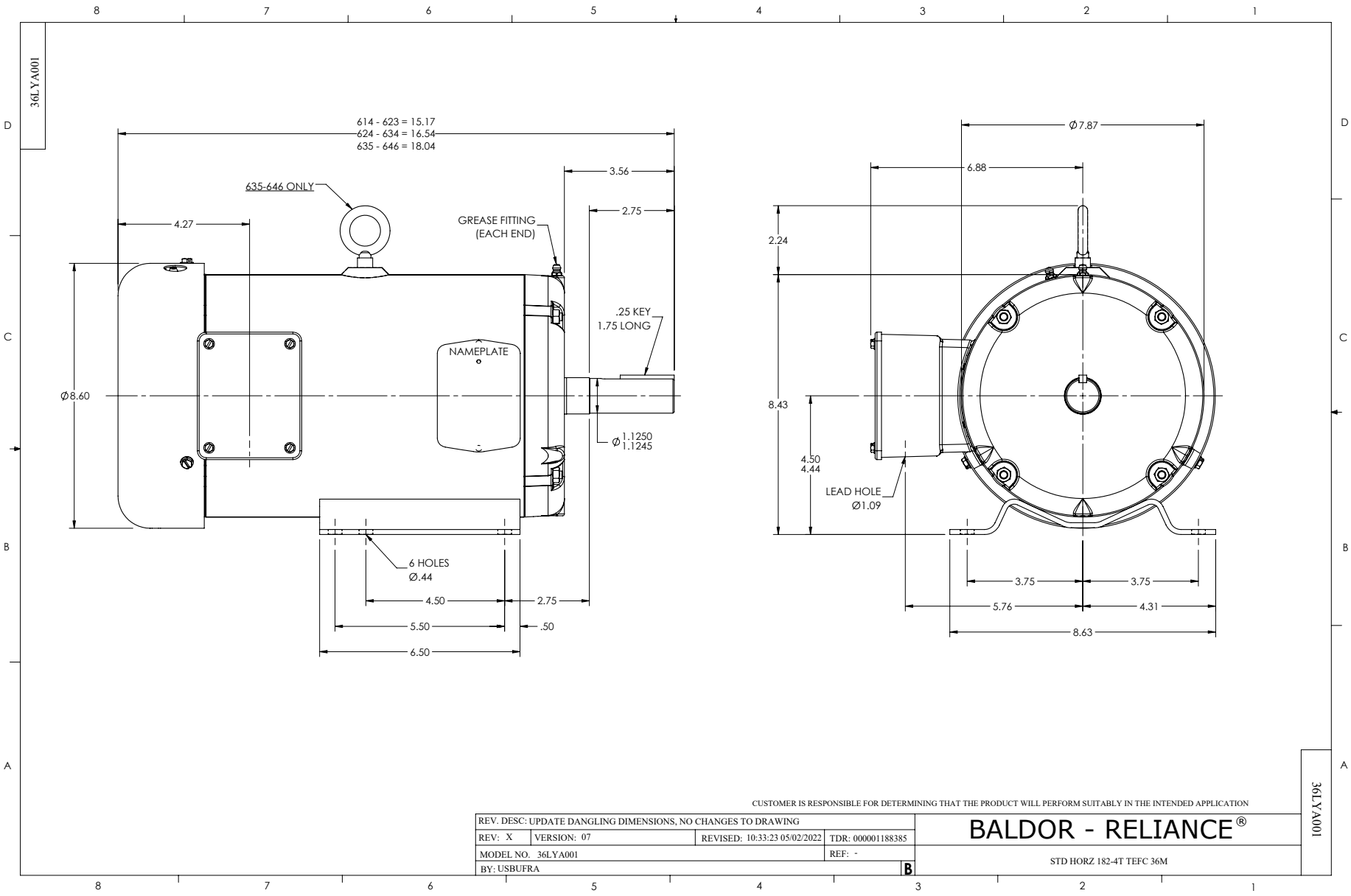
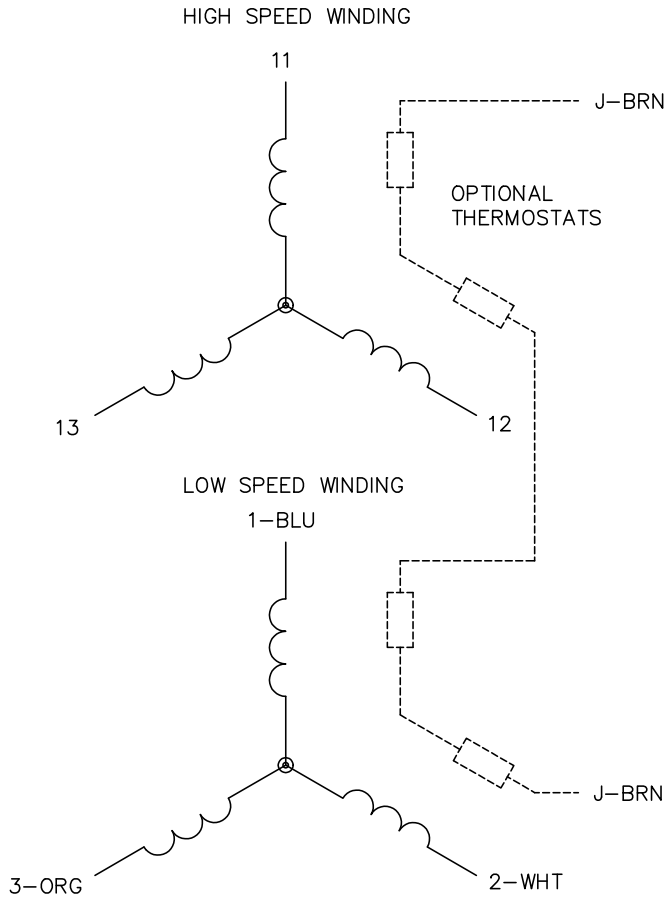
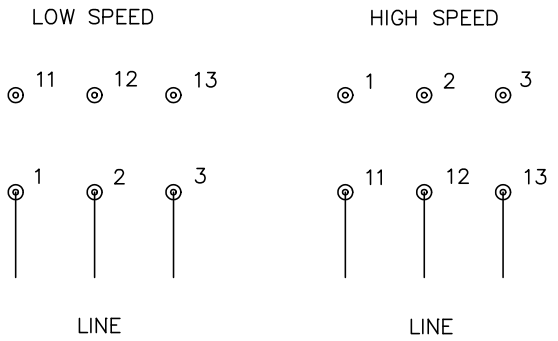


ABB Motors and Mechanical Inc.
WINDING # 36WG0450
0.67 HP 3 PH 60 HZ 1163 RPM 230 V 3623M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=10 PU=5.5 LR=7 LRA=13
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.67 HP)
5/29/2024 ACPERF, record # 61295


36LYA001
614 - 623 = 15.17
624 - 634 = 16.54
635 - 646 = 18.04
635-646 ONLY
3.56
2.75
4.27
GREASE FITTING
(EACH END)
.25 KEY
1.75 LONG
NAMEPLATE
Ø8.60
Ø 1.1250
1.1245
6 HOLES
Ø.44
4.50
2.75
5.50
.50
6.50
Ø7.87
6.88
2.24
8.43
4.50
4.44
LEAD HOLE
Ø1.09
3.75
3.75
5.76
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE DANGLING DIMENSIONS, NO CHANGES TO DRAWING
REV: X
VERSION: 07
REVISED: 10:33:23 05/02/2022
TDR: 000001188385
MODEL NO. 36LYA001
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 36M
36LYA001

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