BALDOR • RELIANCE

Customer information packet

GNEM3714T

10HP//7.5KW, 1770//1460RPM, 3PH, 60//50HZ, 2
Class - None
Division - Not Applicable

1/23/2025 6:01:35 PM

Specifications

Enclosure	TEFC
Frame	215T
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	7.500 KW @ 50 HZ
	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 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
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	30.000 A @ 190.0 V
	27.000 A @ 208.0 V
	26.000 A @ 230.0 V
	15.000 A @ 380.0 V

Part detail

Revision	B
Type	AC
Mech. spec.	37H244
Base	
Status	PRD/A
Elec. spec.	37WGZ676
Layout	37LYH244
Eff. date	05-13-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	10-27-2023

	13.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	13.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3756M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.52 IN
Power Factor	78
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	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Speed	1460 rpm
	1770 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.	GNEM3714T								
SPEC.	37H244Z676								
HP	10HP//7.5KW				**PH**	3			
VOLTS	208-230/460//190/380								
AMPS	27-26/13//30/15								
R.P.M. (1/MIN)	1770//1460				**WT.**	57KG	**KG**		
FRAME	215T	**HZ**	60//50		**I.P.**	44			
SER.F.	1.15	**CODE**	K	**DES.**	A	**CLASS**	F		
NOM.EFF.	91.7//90.4	**% (100%)**							
P.F.	78	IC411, 10:1 VT							
RATING	40C AMB-S1 CONT			**CC**	010A				
DE	6307	**ODE**	6206						
ENCL	TEFC	**SN**							
	IE3-60HZ- 92.7(75%)91.9(50%)								
	IE3-50HZ- 91.6(75%)91.9(50%)								
	SFA 31-30/15//34/17								

AC Induction Motor Performance Data
Record # 103134
Typical performance - not guaranteed values

Winding: 37WGZ676-R001	**Type:** 3756M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10HP//7.5KW	**Full Load Torque**	29.74 LB-FT
Volts			208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			26.8-25/12//29.8/14.9	**Breakdown Torque**	110 LB-FT
R.P.M.			1770//1465	**Pull-up Torque**	66.7 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	83.7 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	112 A
Service Factor (S.F.)			1.15	**No-load Current**	6.43 A
NEMA Nom. Eff.	91.7	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.81572 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	67°C
S.F. Amps			30.8-28.4/14.2//34/17	**Temp. Rise @ S.F. Load**	82°C
				Locked-rotor Power Factor	35

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	60	72	78	82	84	80
Efficiency	87.7	91.9	92.7	92.5	91.8	90.8	92.1
Speed	1791.8	1784	1775.5	1766.5	1757.1	1746.9	1761
Line amperes	7.06	8.53	10.5	13	15.6	18.5	14.6

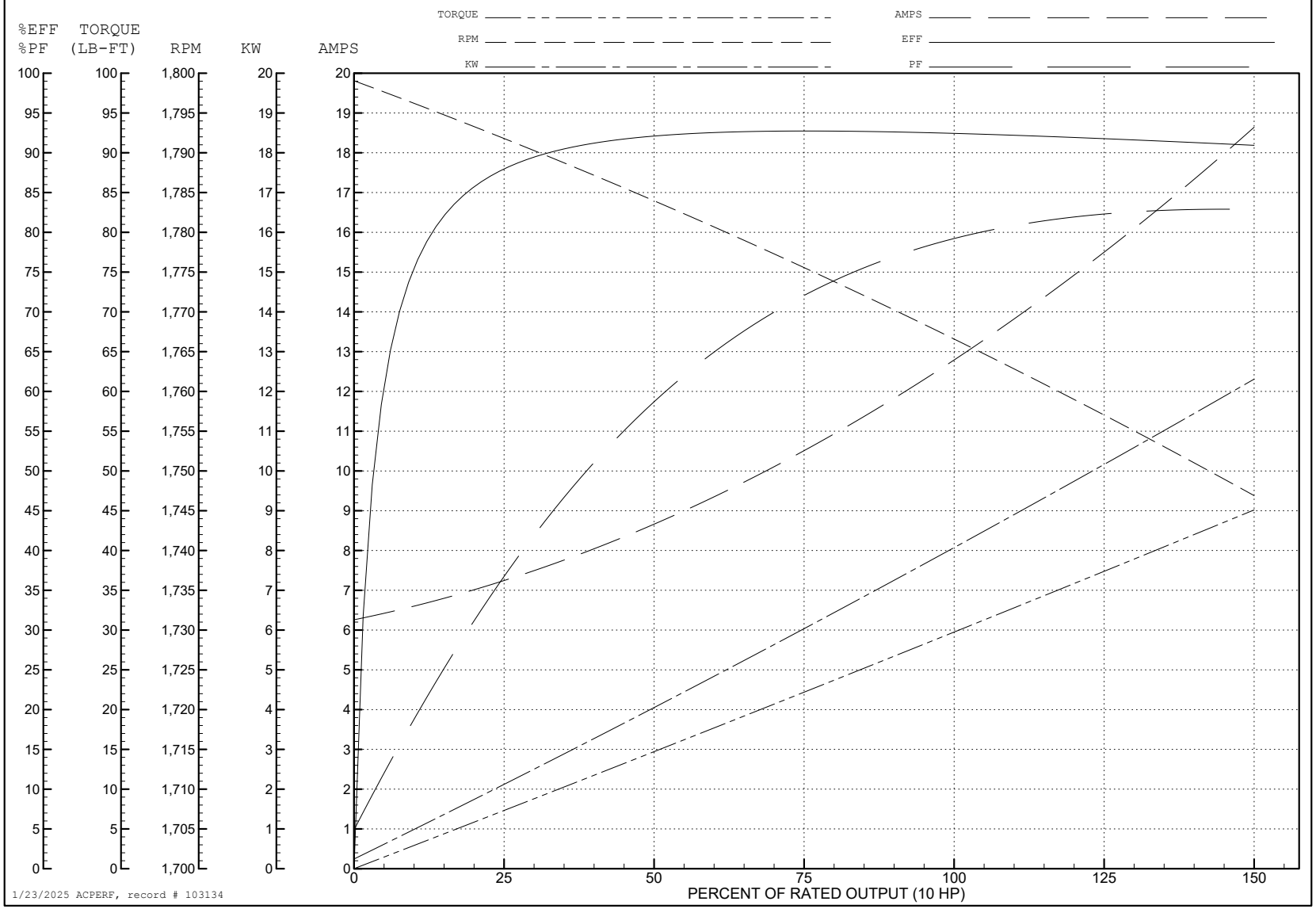
ABB Motors and Mechanical Inc.

WINDING # 37WGZ676

10 HP 3 PH 60 HZ 1766.5 RPM 460 V 3756M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=110 PU=66.7 LR=83.7 LRA=112



AC Induction Motor Performance Data
Record # 103135
Typical performance - not guaranteed values

Winding: 37WGZ676-R001	**Type:** 3756M	**Enclosure:** TEFC

Nameplate Data			**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)		10HP//7.5KW	**Full Load Torque**	36.28 LB-FT
Volts		208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps		26.8-25/12//29.8/14.9	**Breakdown Torque**	112 LB-FT
R.P.M.		1770//1465	**Pull-up Torque**	57.6 LB-FT
Hz	60//50 **Phase**	3	**Locked-rotor Torque**	80.9 LB-FT
NEMA Design Code	A **KVA Code**	K	**Starting Current**	107 A
Service Factor (S.F.)		1.15	**No-load Current**	6.3 A
NEMA Nom. Eff.	91.7 **Power Factor**	85	**Line-line Res. @ 25ºC**	0.81636 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	85°C
S.F. Amps		30.8-28.4/14.2//34/17	**Temp. Rise @ S.F. Load**	99°C
			Locked-rotor Power Factor	38.9
			Rotor inertia	1.38 lb-ft²

Load Characteristics 380 V, 50 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	67	78	83	84	85	84
Efficiency	89.3	91.9	91.6	90.5	89.5	88.8	89.9
Speed	1489.8	1479.5	1468.1	1456.3	1448.4	1442.5	1452
Line amperes	7.19	9.25	12	15.3	17.4	18.9	16.6

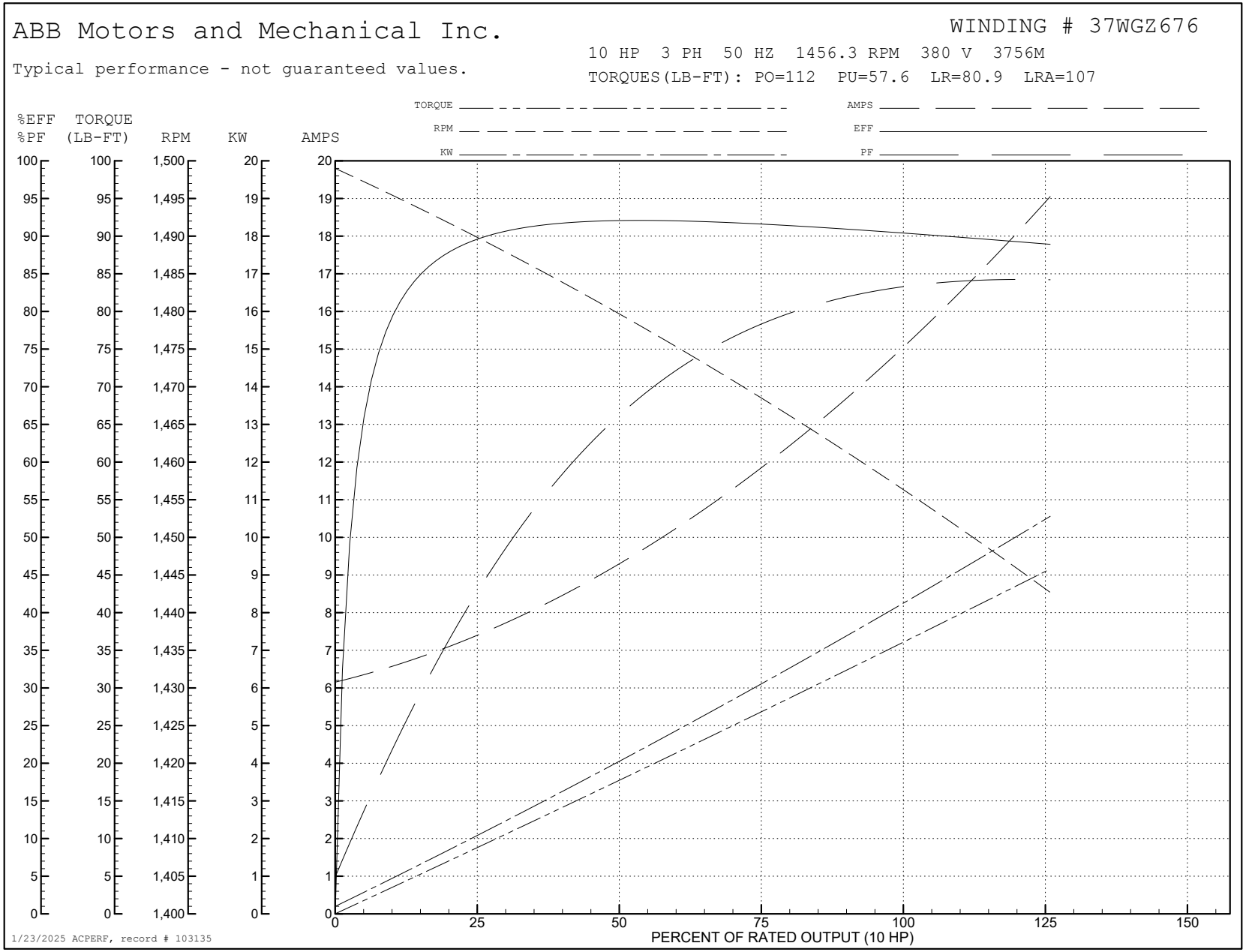
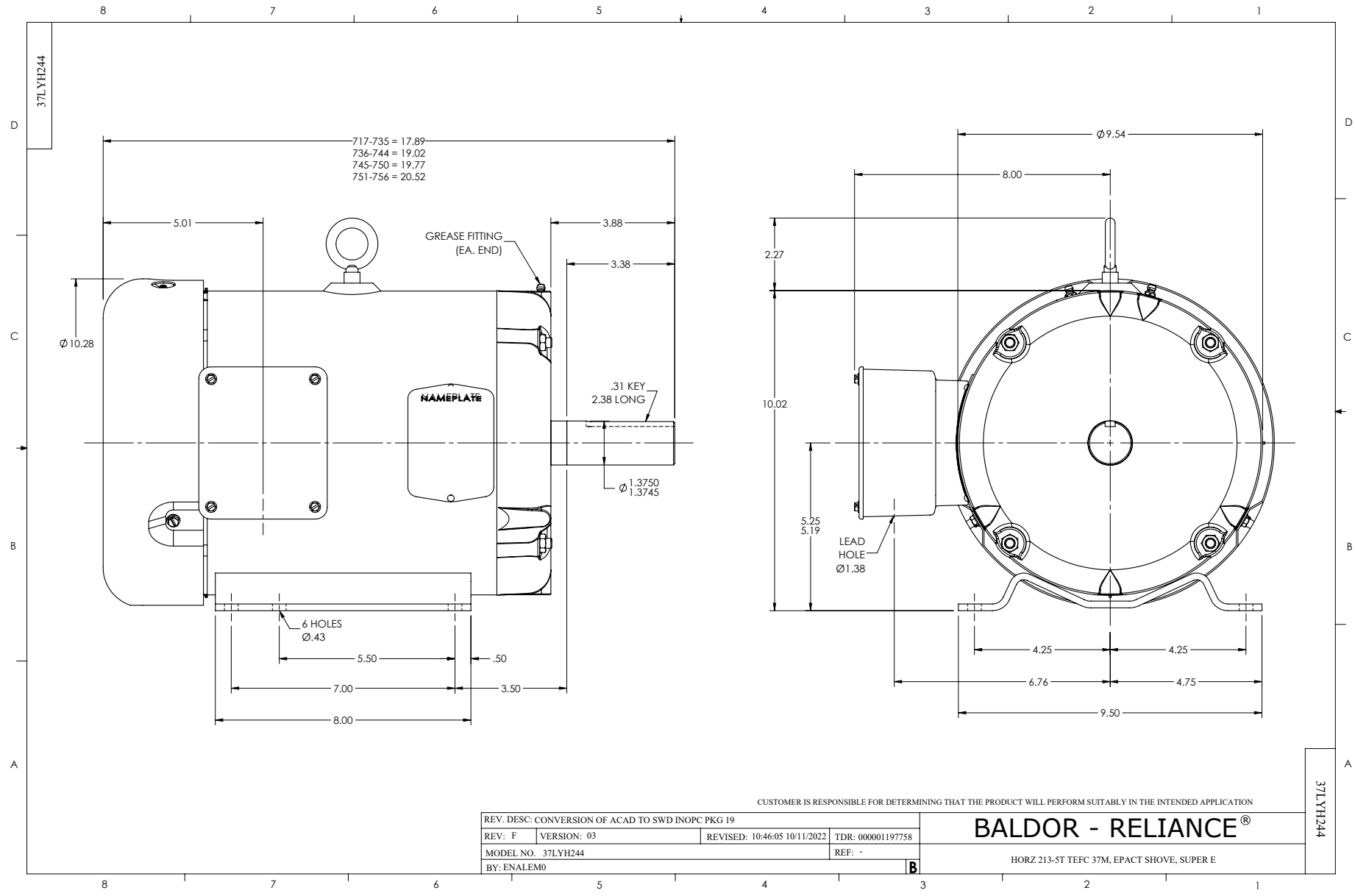
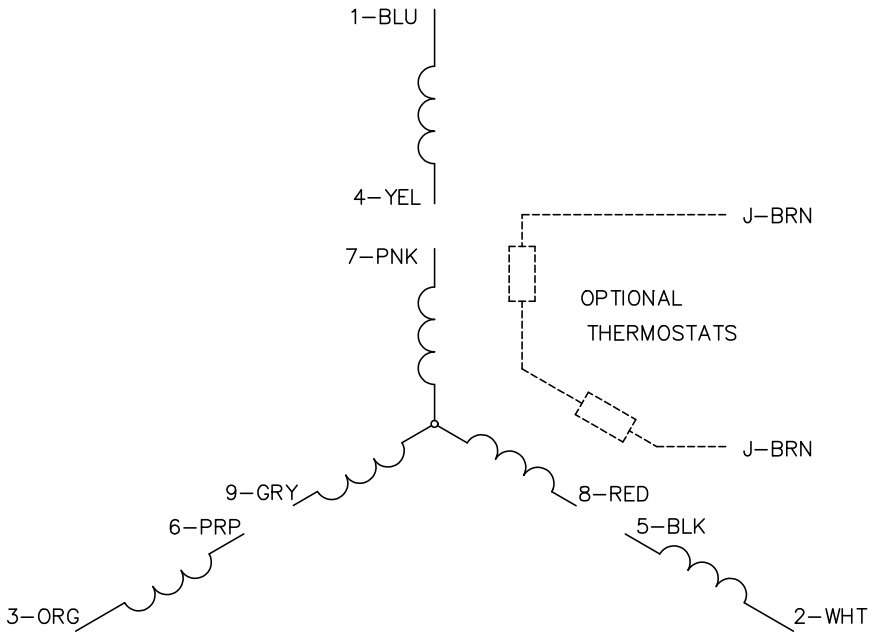
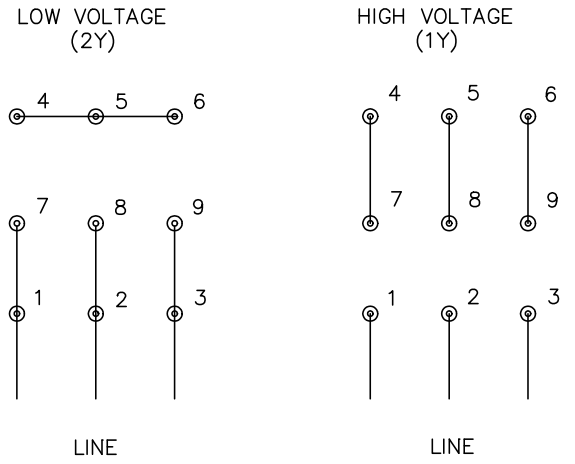


ABB Motors and Mechanical Inc.
WINDING # 37WGZ676
10 HP 3 PH 50 HZ 1456.3 RPM 380 V 3756M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=112 PU=57.6 LR=80.9 LRA=107
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
1/23/2025 ACPERF, record # 103135


37LYH244
717-735 = 17.89
736-744 = 19.02
745-750 = 19.77
751-756 = 20.52
5.01
3.88
3.38
GREASE FITTING
(EA. END)
Ø 10.28
NAMEPLATE
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
6 HOLES
Ø.43
5.50
.50
7.00
3.50
8.00
Ø 9.54
8.00
2.27
10.02
5.25
5.19
LEAD
HOLE
Ø1.38
4.25
4.25
6.76
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: F
VERSION: 03
REVISED: 10:46:05 10/11/2022
TDR: 000001197758
MODEL NO. 37LYH244
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 213-5T TEFC 37M, EPACT SHOVE, SUPER E
37LYH244

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