ABB BALDOR RELIANCE

Customer information packet

GNEM3710T

7.5HP, 1760//1460RPM, 3PH, 60//50HZ, 213T, 37
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213T
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 HP @ 60 HZ
	7.500 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
	UKCA
	WEEE
	CURUS
	IE3
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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	22.800 A @ 190.0 V
	9.800 A @ 460.0 V

Part Detail

Revision	K
Type	AC
Mech. spec.	37H244
Base	
Status	PRD/A
Elec. spec.	37WGZ616
Layout	37LYH244
Eff. date	05-13-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	02-16-2017

	20.400 A @ 208.0 V
	19.600 A @ 230.0 V
	11.400 A @ 380.0 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 Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3742M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.02 IN
Power Factor	77
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1460 rpm
	1760 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.	GNEM3710T									
SPEC.	37H244Z616G1									
HP	7.5/5.5KW					**PH**	3			
VOLTS	208-230/460//190/380									
AMPS	20.4-19.6/9.8//22.8/11.4									
R.P.M. (1/MIN)	1760//1460					**WT.**	67KG	**KG**		
FRAME	213T	**HZ**	60//50			**I.P.**	44			
SER.F.	1.15	**CODE**	K	**DES.**	A	**CLASS**	F			
NOM.EFF.	91.7//89.6	**% (100%)**								
P.F.	77		IC411, 10:1 VT							
RATING	40C AMB-S1 CONT			**CC**	010A					
DE	6307	**ODE**	6206							
ENCL	TEFC	**SN**								
	IE3-50HZ-92.1(75%)91.9(50%)									
	IE3-60HZ-92.2(75%)91.1(50%)									

AC Induction Motor Performance Data
Record # 62288
Typical performance - not guaranteed values

Winding: 37WGZ616-R001	**Type:** 3742M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	22.13 LB-FT
Volts			208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			20.4-19.6/9.8//22.8/11.4	**Breakdown Torque**	82.37 LB-FT
R.P.M.			1760//1460	**Pull-up Torque**	38.15 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	50.17 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	82.21 A
Service Factor (S.F.)			1.15	**No-load Current**	5.03 A
NEMA Nom. Eff.	91.7	**Power Factor**	77	**Line-line Res. @ 25ºC**	1.21 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	40°C
S.F. Amps				**Temp. Rise @ S.F. Load**	48°C
				Locked-rotor Power Factor	37.3
				Rotor inertia	1.03 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	58	71	77	81	83	79
Efficiency	86.3	91.1	92.2	92	91.4	90.6	91.6
Speed	1794	1788	1781	1774	1765	1757	1769
Line amperes	5.51	6.59	8.06	9.84	11.85	13.98	11

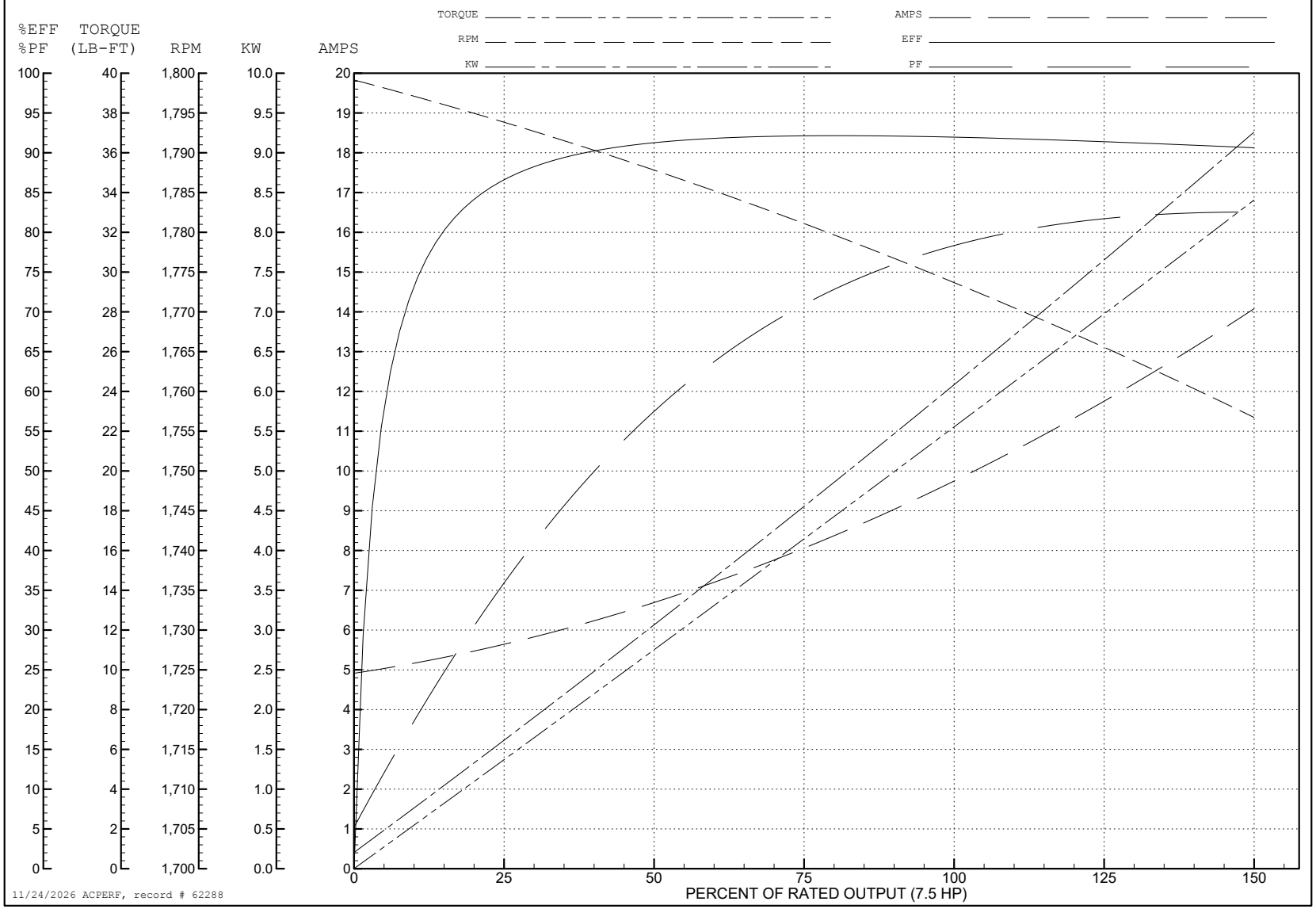
ABB Motors and Mechanical Inc.

WINDING # 37WGZ616

7.5 HP 3 PH 60 HZ 1774 RPM 460 V 3742M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=82.37 PU=38.15 LR=50.17 LRA=82.21



AC Induction Motor Performance Data
Record # 62289
Typical performance - not guaranteed values

Winding: 37WGZ616-R001	**Type:** 3742M	**Enclosure:** TEFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	26.67 LB-FT
Volts			208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			20.4-19.6/9.8//22.8/11.4	**Breakdown Torque**	78.35 LB-FT
R.P.M.			1760//1460	**Pull-up Torque**	39.22 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	51.57 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	79.58 A
Service Factor (S.F.)			1.15	**No-load Current**	4.93 A
NEMA Nom. Eff.	91.7	**Power Factor**	77	**Line-line Res. @ 25ºC**	1.21 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	50°C
S.F. Amps				**Temp. Rise @ S.F. Load**	63°C
				Locked-rotor Power Factor	41.5
				Rotor inertia	1.03 LB-FT2

Load Characteristics 380 V, 50 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	65	76	81	84	85	83
Efficiency	88.8	91.9	92.1	91.3	90.1	88.6	90.6
Speed	1493	1486	1478	1469	1459	1449	1463
Line amperes	5.58	7.06	9.04	11.4	14.08	16.93	13

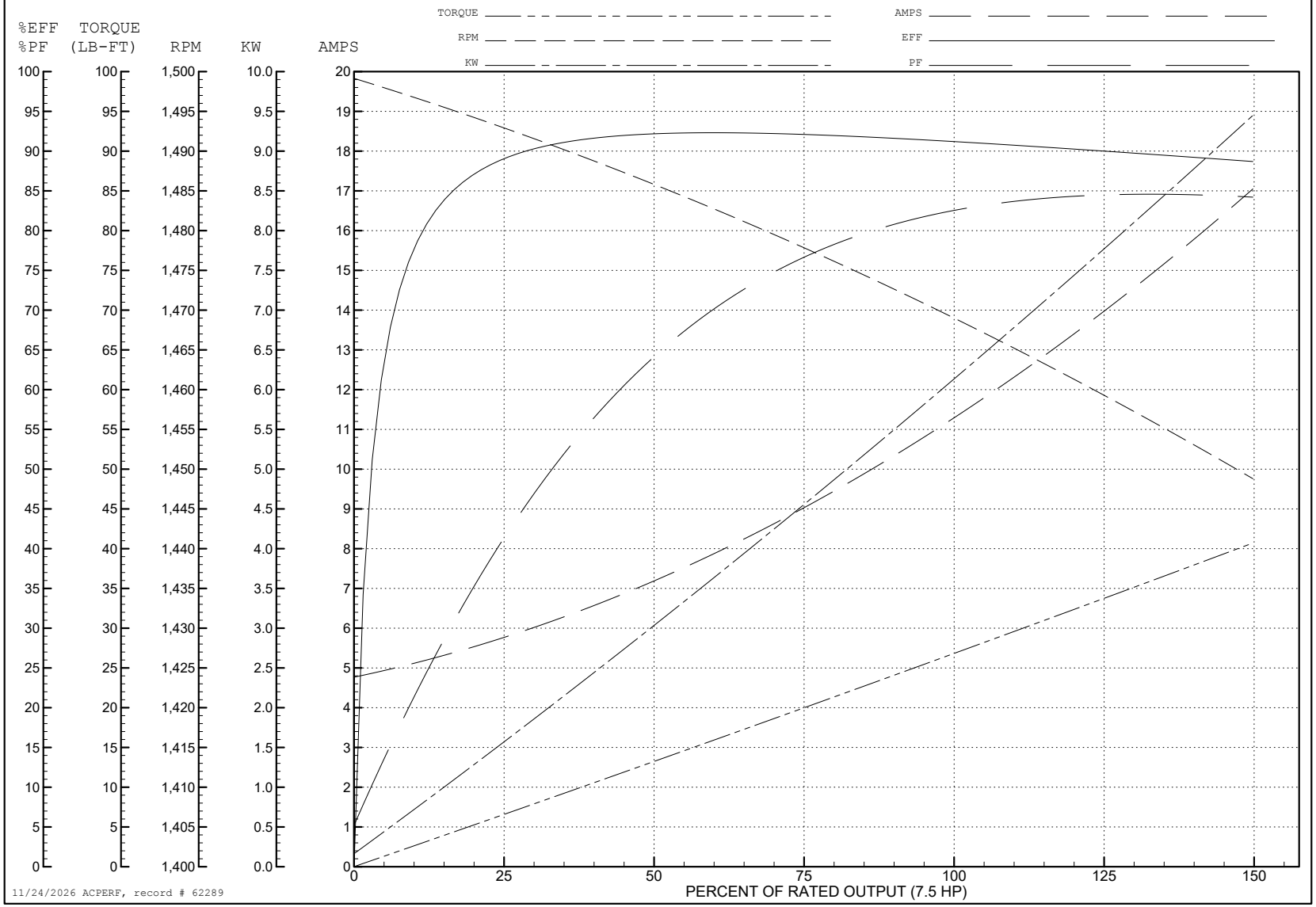
ABB Motors and Mechanical Inc.

WINDING # 37WGZ616

7.5 HP 3 PH 50 HZ 1469 RPM 380 V 3742M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=78.35 PU=39.22 LR=51.57 LRA=79.58



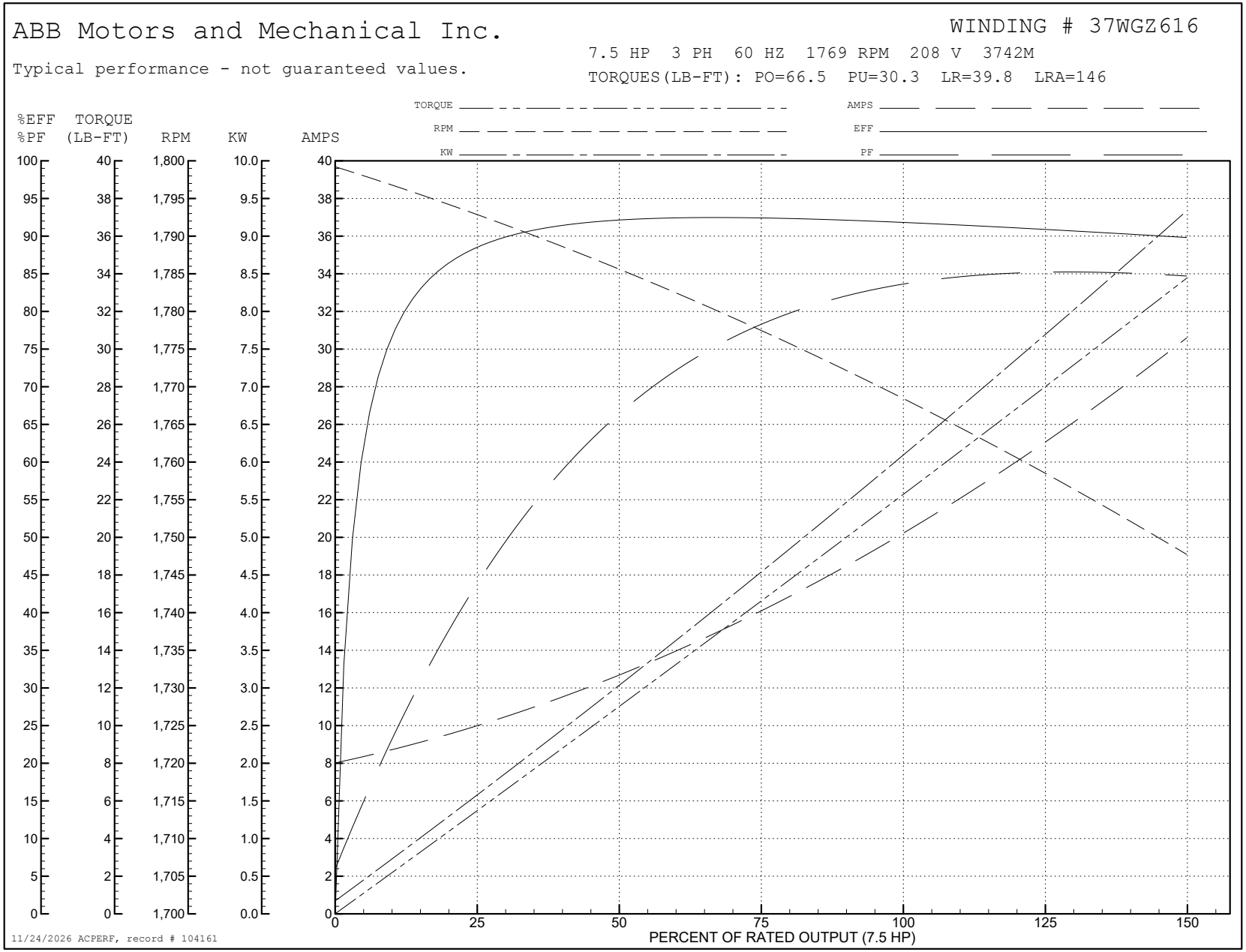
AC Induction Motor Performance Data
Record # 104161
Typical performance - not guaranteed values

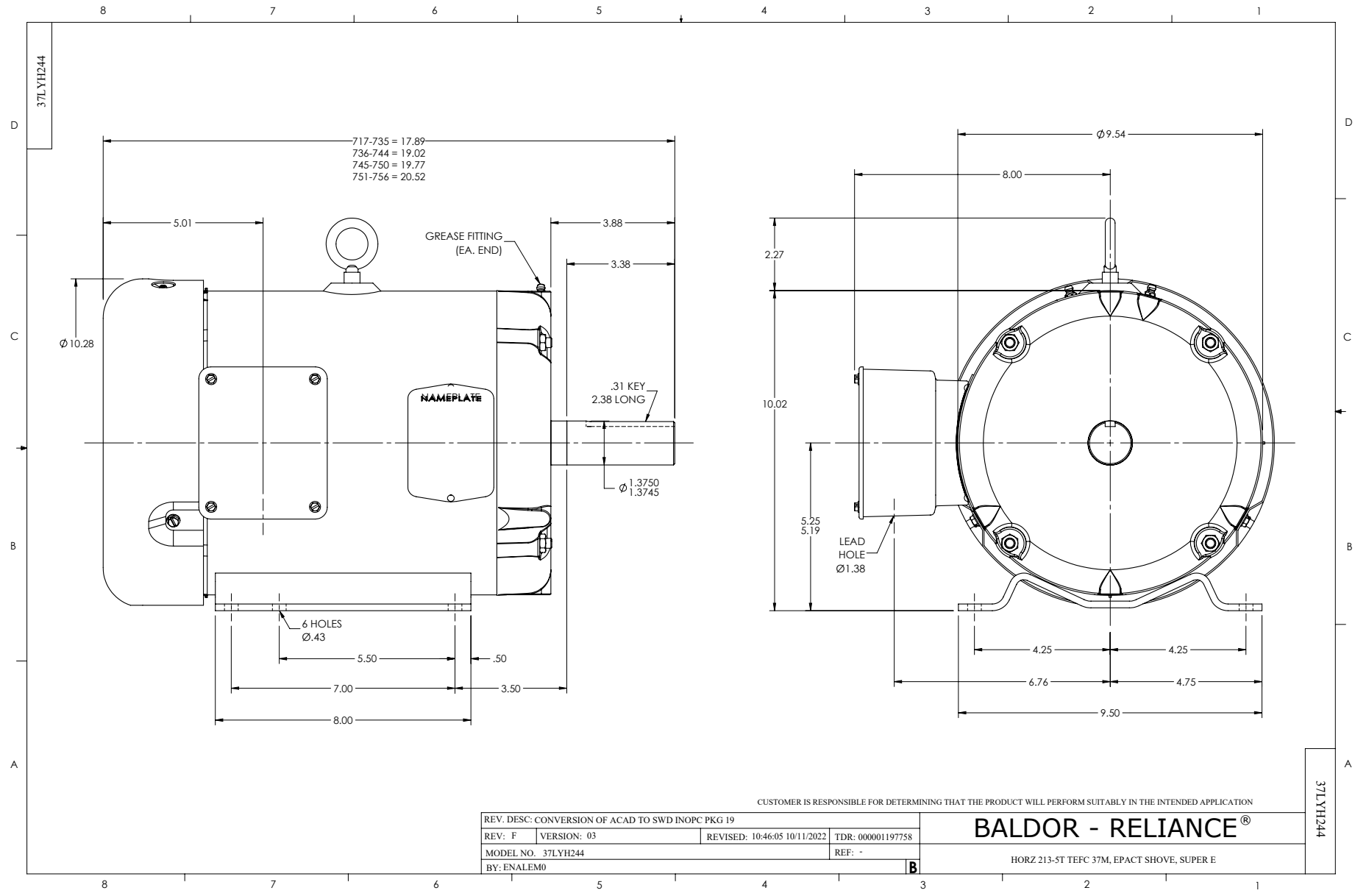
Winding: 37WGZ616-R002	**Type:** 3742M	**Enclosure:** TEFC

Nameplate Data				**208 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	22.15 LB-FT
Volts			208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			20.4-19.6/9.8//22.8/11.4	**Breakdown Torque**	66.5 LB-FT
R.P.M.			1760//1460	**Pull-up Torque**	30.3 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	39.8 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	146 A
Service Factor (S.F.)			1.15	**No-load Current**	8.33 A
NEMA Nom. Eff.	91.7	**Power Factor**	77	**Line-line Res. @ 25ºC**	0.302 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps				**Temp. Rise @ S.F. Load**	50°C
				Locked-rotor Power Factor	37.3
				Rotor inertia	1.03 LB-FT2

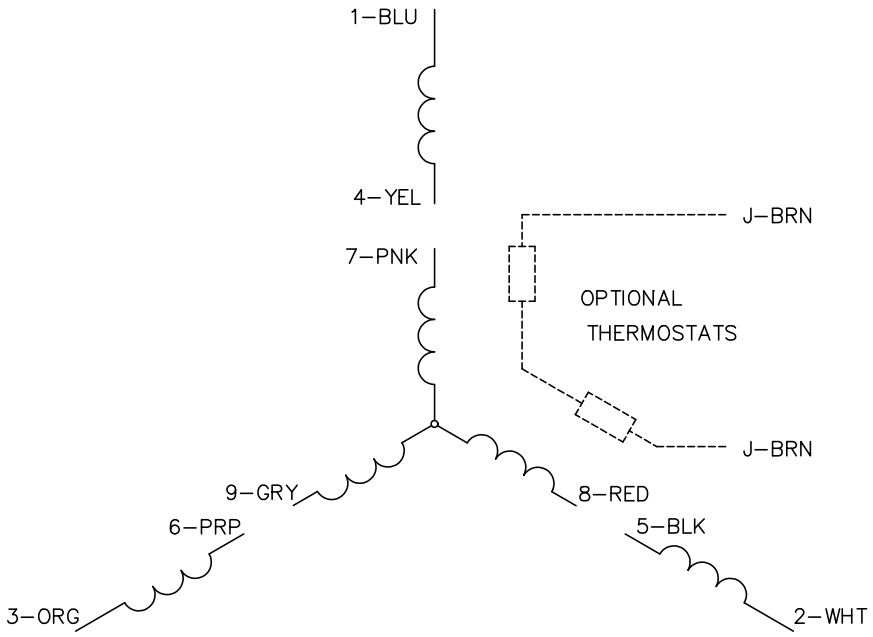
Load Characteristics 208 V, 60 Hz, 7.5 HP

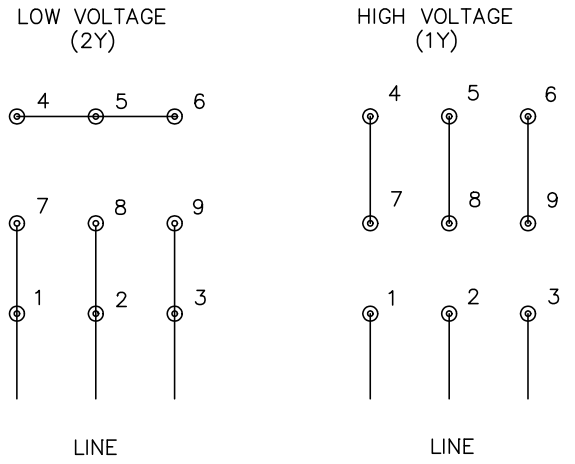
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	46	68	78	82	85	85	84
Efficiency	88.3	91.9	92.4	91.9	90.9	89.7	91.3
Speed	1793	1786	1777	1769	1758	1748	1762
Line amperes	9.63	12.47	16.13	20.42	25.23	30.37	23.3


ABB Motors and Mechanical Inc.
WINDING # 37WGZ616
7.5 HP 3 PH 60 HZ 1769 RPM 208 V 3742M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=66.5 PU=30.3 LR=39.8 LRA=146
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (7.5 HP)
11/24/2026 ACPERF, record # 104161


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