ABB BALDOR RELIANCE

Customer information packet

M3326

5HP, 1725RPM, 3PH, 60HZ, 254, 3720M, OPEN, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	254
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 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	6.800 A @ 460.0 V
	15.200 A @ 208.0 V
	13.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AL
Type	AC
Mech. spec.	37E027
Base	
Status	INA/A
Elec. spec.	37WGZ042
Layout	37LYE027
Eff. date	02-10-2017
CD Diagram	CD0005
Poles	04
Leads	9#14 Y
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	6.8 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	H
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	3720M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.32 IN
Power Factor	80
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	1725 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

NP1256L									
CAT.NO.									
SPEC.	37E27Z42								
HP	5								
VOLTS	208-230/460								
AMP	15.2-13.6/6.8								
RPM	1725								
FRAME	254	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	H	**DES**	B	**CLASS**	B		
NEMA-NOM-EFF	84	**PF**	80						
RATING	40C AMB-CONT								
CC									
DE	6307	**ODE**	6206						
ENCL	OPEN	**SN**							

Accessories

Part number	Description	Multiplier
37-1402	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 12661
Typical performance - not guaranteed values

Winding: 37WGZ042-R001	**Type:** 3720M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	15.2 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			15.2-13.6/6.8	**Breakdown Torque**	43 LB-FT
R.P.M.			1725	**Pull-up Torque**	29 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	31 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	42 A
Service Factor (S.F.)			1.15	**No-load Current**	4.5 A
NEMA Nom. Eff.	84	**Power Factor**	80	**Line-line Res. @ 25ºC**	3.62 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
S.F. Amps				**Temp. Rise @ S.F. Load**	57°C
				Locked-rotor Power Factor	54
				Rotor inertia	0.42 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	54	68	76	81	84	0
Efficiency	72	81.1	83.4	83.5	82.6	80.9	0
Speed	1783	1767	1750	1731	1710	1686	0
Line amperes	4.7	5.3	6.2	7.4	8.8	10.4	8.2

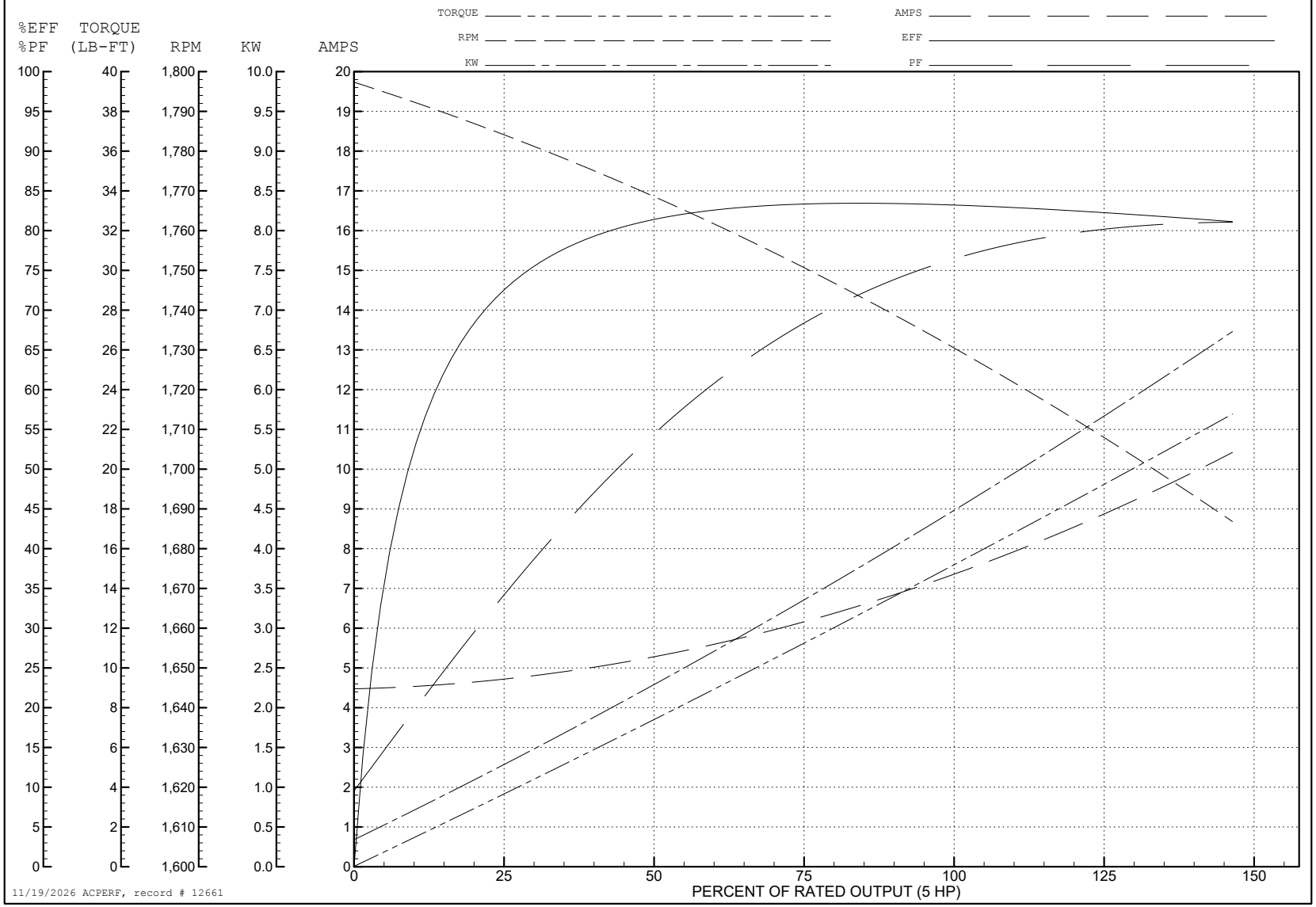
ABB Motors and Mechanical Inc.

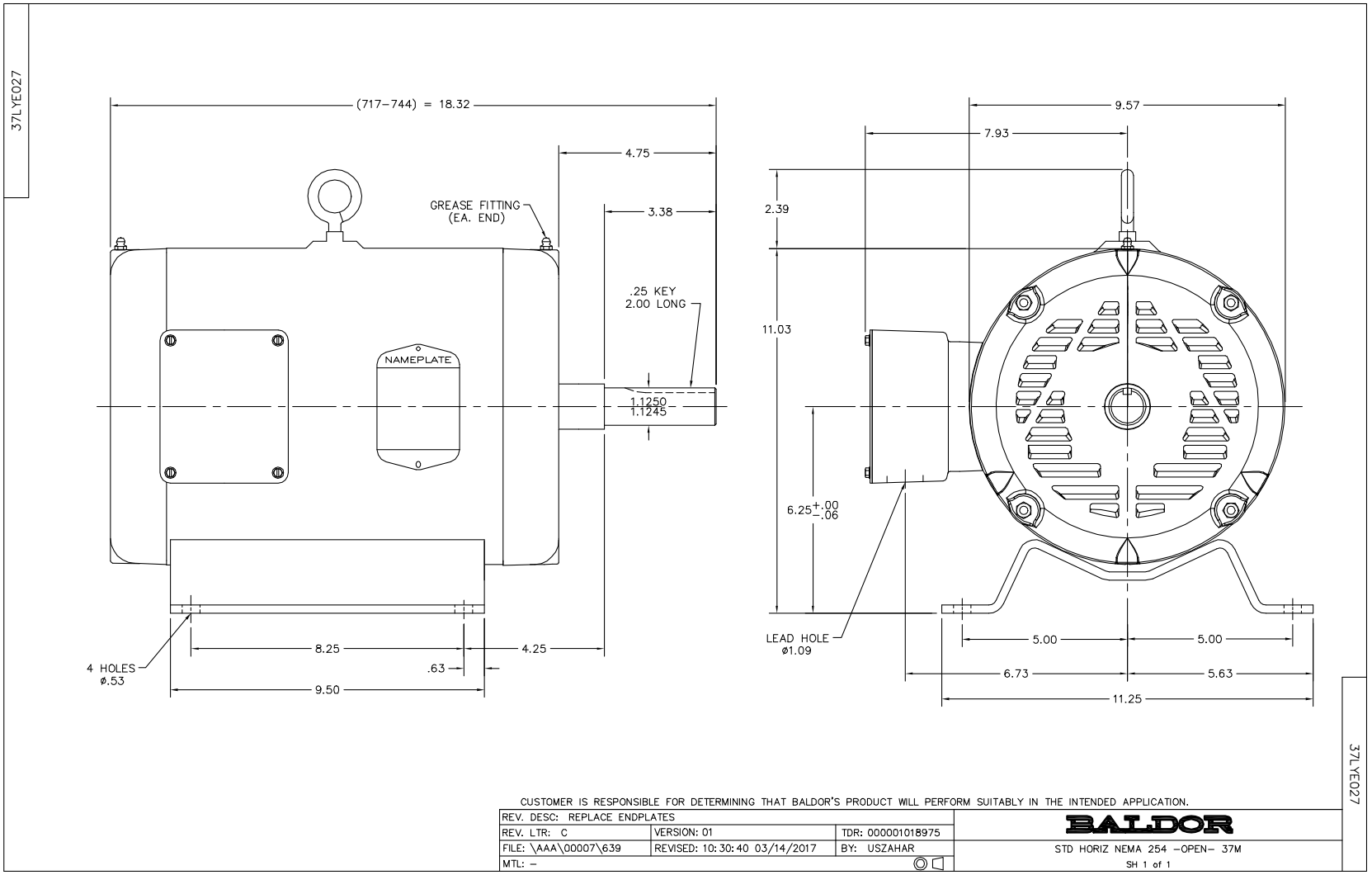
WINDING # 37WGZ042

5 HP 3 PH 60 HZ 1725 RPM 460 V 3720M

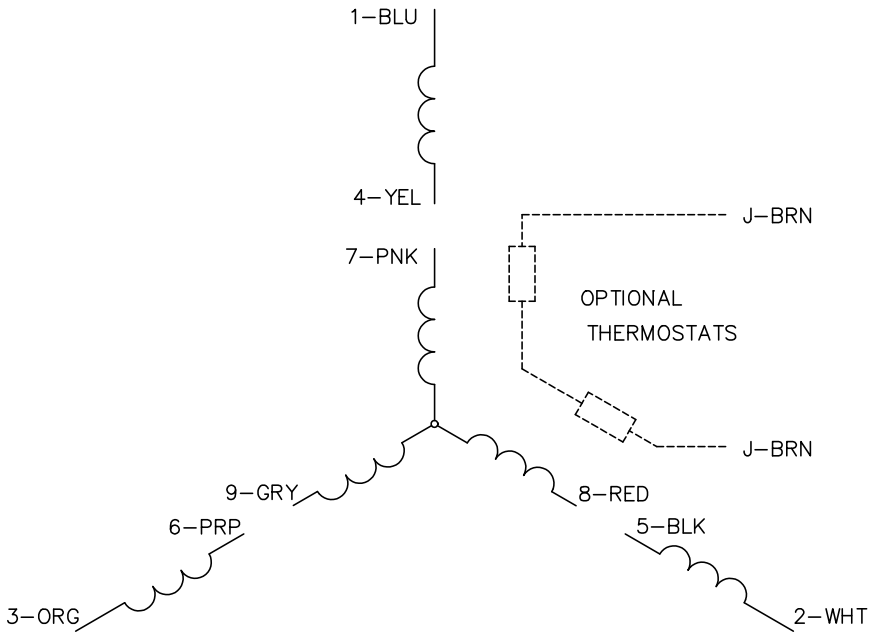
Typical performance - not guaranteed values.

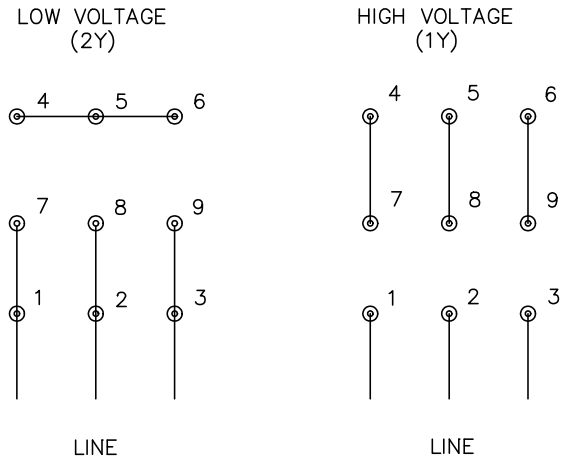
TORQUES(LB-FT): PO=43 PU=29 LR=31 LRA=42




37LYE027
(717-744) = 18.32
4.75
3.38
GREASE FITTING (EA. END)
.25 KEY
2.00 LONG
NAMEPLATE
1.1250
1.1245
4 HOLES ø.53
8.25
.63
4.25
9.50
9.57
7.93
2.39
11.03
6.25 +.00 -.06
LEAD HOLE ø1.09
5.00
5.00
6.73
5.63
11.25
37LYE027
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: REPLACE ENDPLATES
REV. LTR: C
VERSION: 01
TDR: 000001018975
FILE: \AAA\00007\639
REVISED: 10:30:40 03/14/2017
BY: USZAHAR
MTL: –
BALDOR
STD HORIZ NEMA 254 –OPEN– 37M
SH 1 of 1

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