ABB BALDOR RELIANCE

Customer information packet

EMM3615

3.7KW, 1750RPM, 3PH, 60HZ, D112M, 3642M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	D112M
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	3.700 KW @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	13.400 A @ 230.0 V
	13.900 A @ 208.0 V
	6.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	G
Type	AC
Mech. spec.	36M718
Base	
Status	PRD/A
Elec. spec.	36WGS268
Layout	36LYM718
Eff. date	06-20-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	06-29-2011

Heater Indicator	No Heater
High Voltage Full Load Amps	6.7 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Motor Type	3642M
Mounting Arrangement	F2
Number of Poles	4
Overall Length	17.66 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.103 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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

NP1159L							
CAT.NO.	EMM3615						
SPEC.	36M718S268G1						
IEC FRAME	D112M	**KW**	3.7				
VOLTS	230/460						
AMP	13.4/6.7						
RPM	1750	**ENCL**	TEFC				
HZ	60	**PH**	3	**CL**	F		
SER.F.	1.15	**DES**	B	**CODE**	J		
NEMA-NOM-EFF	89.5	**I.P.**	54				
RATING	40C AMB-CONT						
CC	010A						
DE	6206	**ODE**	6205				
SER. #							

AC Induction Motor Performance Data
Record # 57405
Typical performance - not guaranteed values

Winding: 36WGS268-R075	**Type:** 3642M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (KW)			3.7	**Full Load Torque**	14.8 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			13.4/6.7	**Breakdown Torque**	52.2 LB-FT
R.P.M.			1750	**Pull-up Torque**	31.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	34.9 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	49.1 A
Service Factor (S.F.)			1.15	**No-load Current**	3.24 A
NEMA Nom. Eff.	89.5	**Power Factor**	78	**Line-line Res. @ 25ºC**	2.27 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	70°C
S.F. Amps				**Temp. Rise @ S.F. Load**	85°C
				Locked-rotor Power Factor	39.8
				Rotor inertia	0.391 LB-FT2

Load Characteristics 460 V, 60 Hz, 3.7 KW

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	60	71	78	83	83	81
Efficiency	85	89.7	90.3	89.7	88.4	87	89
Speed	1789	1776	1762	1750	1733	1715	1740
Line amperes	3.55	4.29	5.41	6.62	7.88	9.57	7.42

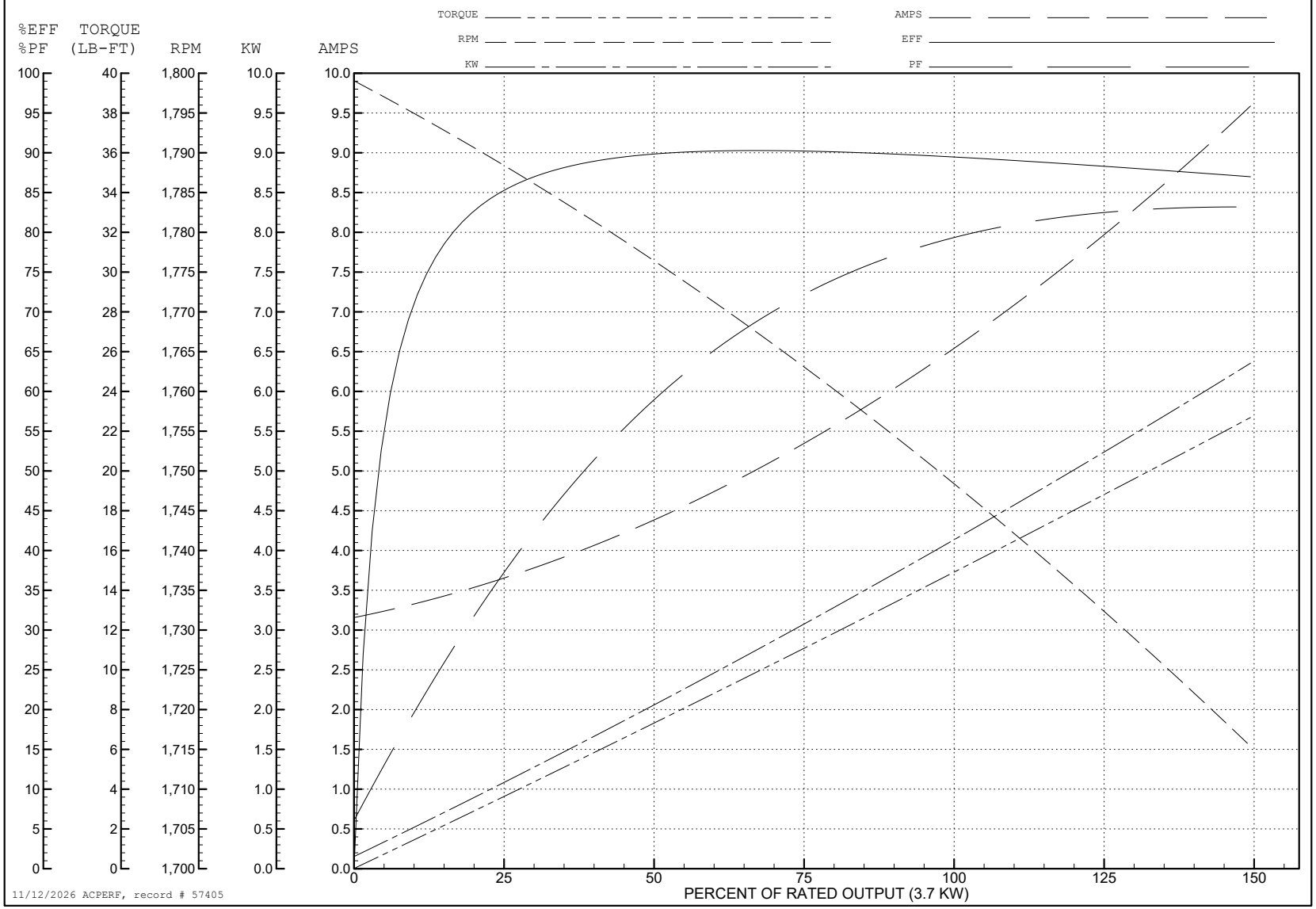
ABB Motors and Mechanical Inc.

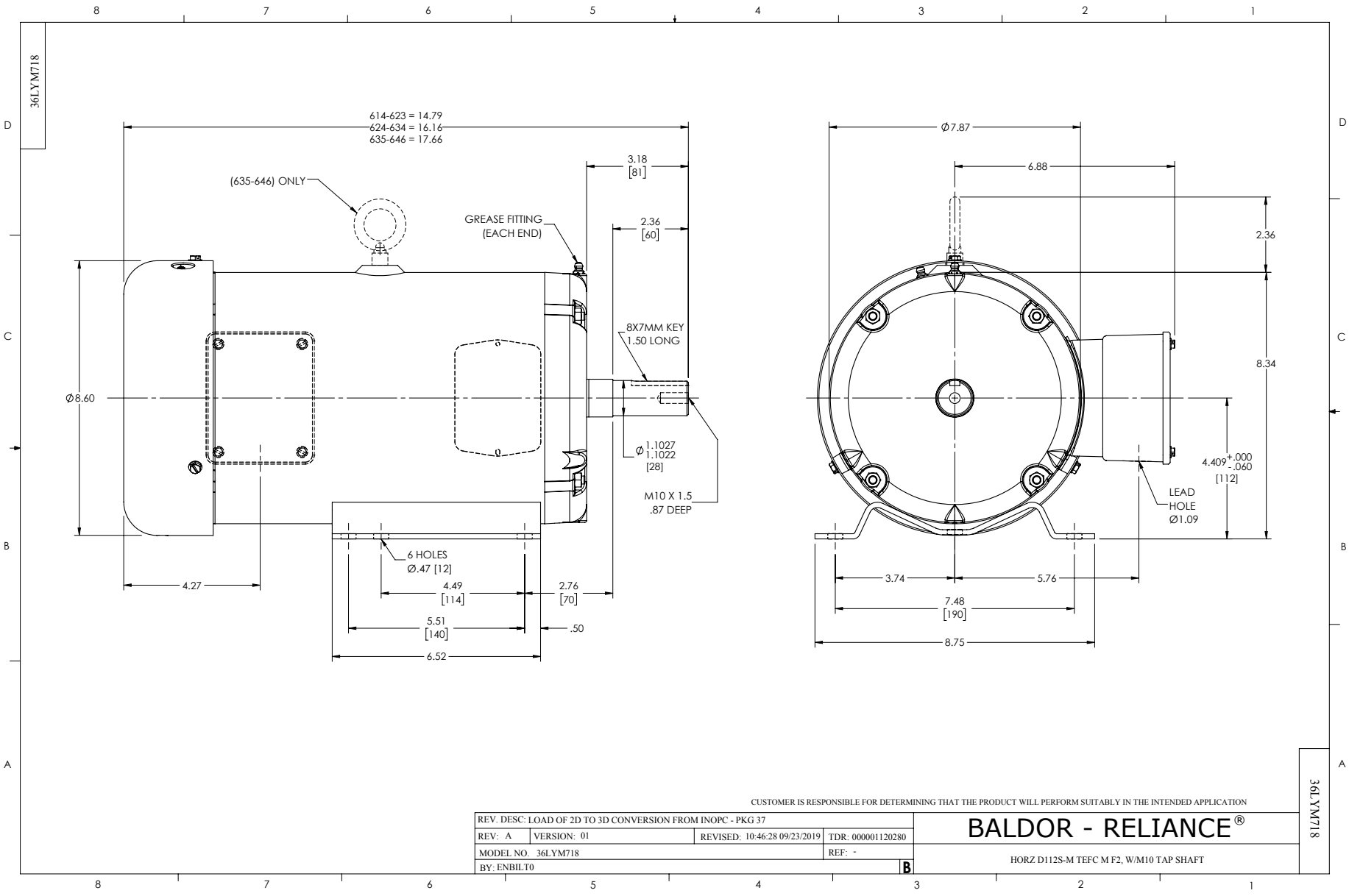
WINDING # 36WGS268

3.7 KW 3 PH 60 HZ 1750 RPM 460 V 3642M

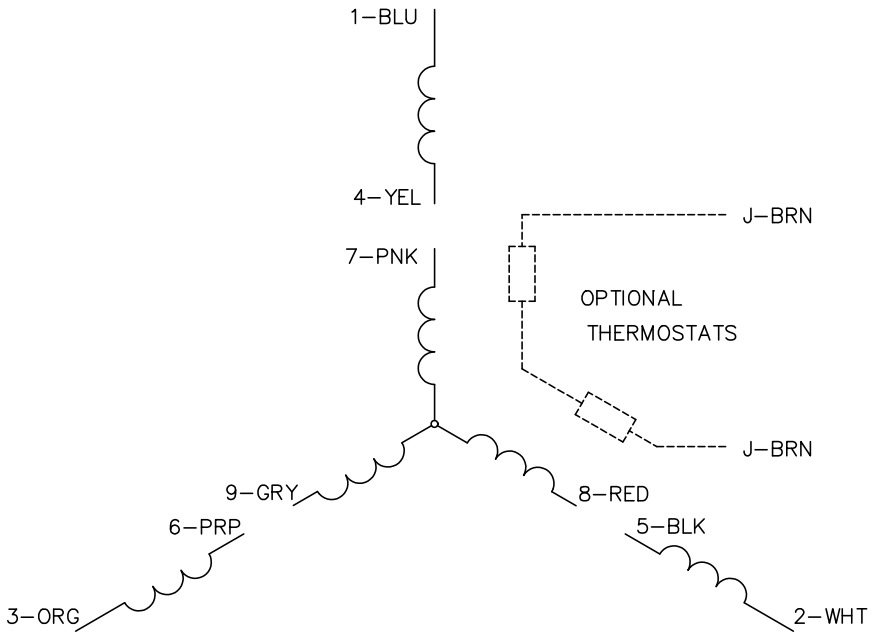
Typical performance - not guaranteed values.

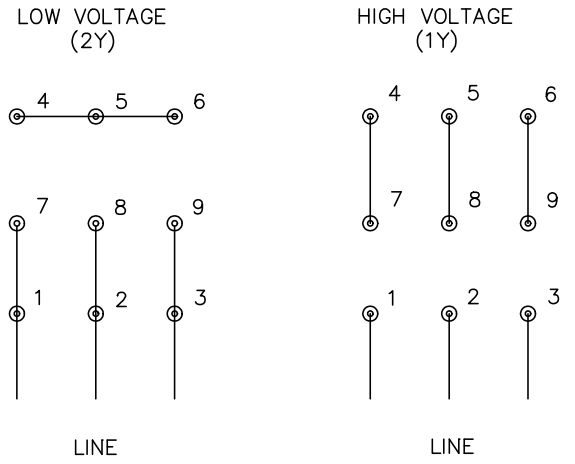
TORQUES(LB-FT): PO=52.2 PU=31.5 LR=34.9 LRA=49.1




36LYM718
614-623 = 14.79
624-634 = 16.16
635-646 = 17.66
(635-646) ONLY
GREASE FITTING
(EACH END)
3.18
[81]
2.36
[60]
8X7MM KEY
1.50 LONG
Ø8.60
Ø 1.1027
1.1022
[28]
M10 X 1.5
.87 DEEP
6 HOLES
Ø.47 [12]
4.27
4.49
[114]
2.76
[70]
5.51
[140]
.50
6.52
Ø7.87
6.88
2.36
8.34
4.409 +.000 -.060
[112]
LEAD
HOLE
Ø1.09
3.74
5.76
7.48
[190]
8.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD OF 2D TO 3D CONVERSION FROM INOPC - PKG 37
REV: A
VERSION: 01
REVISED: 10:46:28 09/23/2019
TDR: 000001120280
MODEL NO. 36LYM718
REF: -
BY: ENBILT0
B
BALDOR - RELIANCE®
HORZ D112S-M TEFC M F2, W/M10 TAP SHAFT
36LYM718

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