

ABB BALDOR RELIANCE III

Customer information packet

EMM3615

3.7KW, 1750RPM, 3PH, 60HZ, D112M, 3642M, TEFC

Class - None

Division - Not Applicable

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. @ 25°C		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

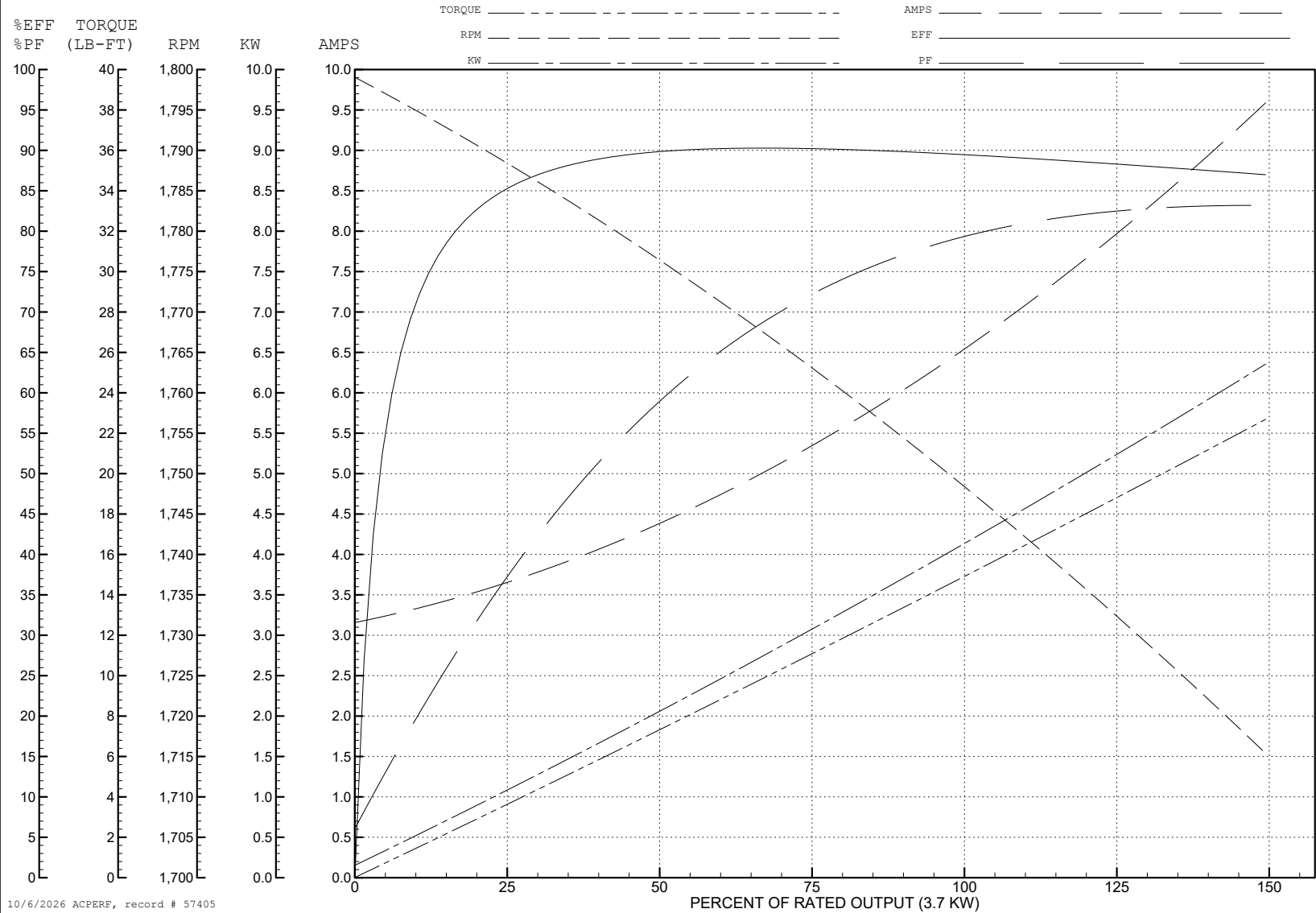
ABB Motors and Mechanical Inc.

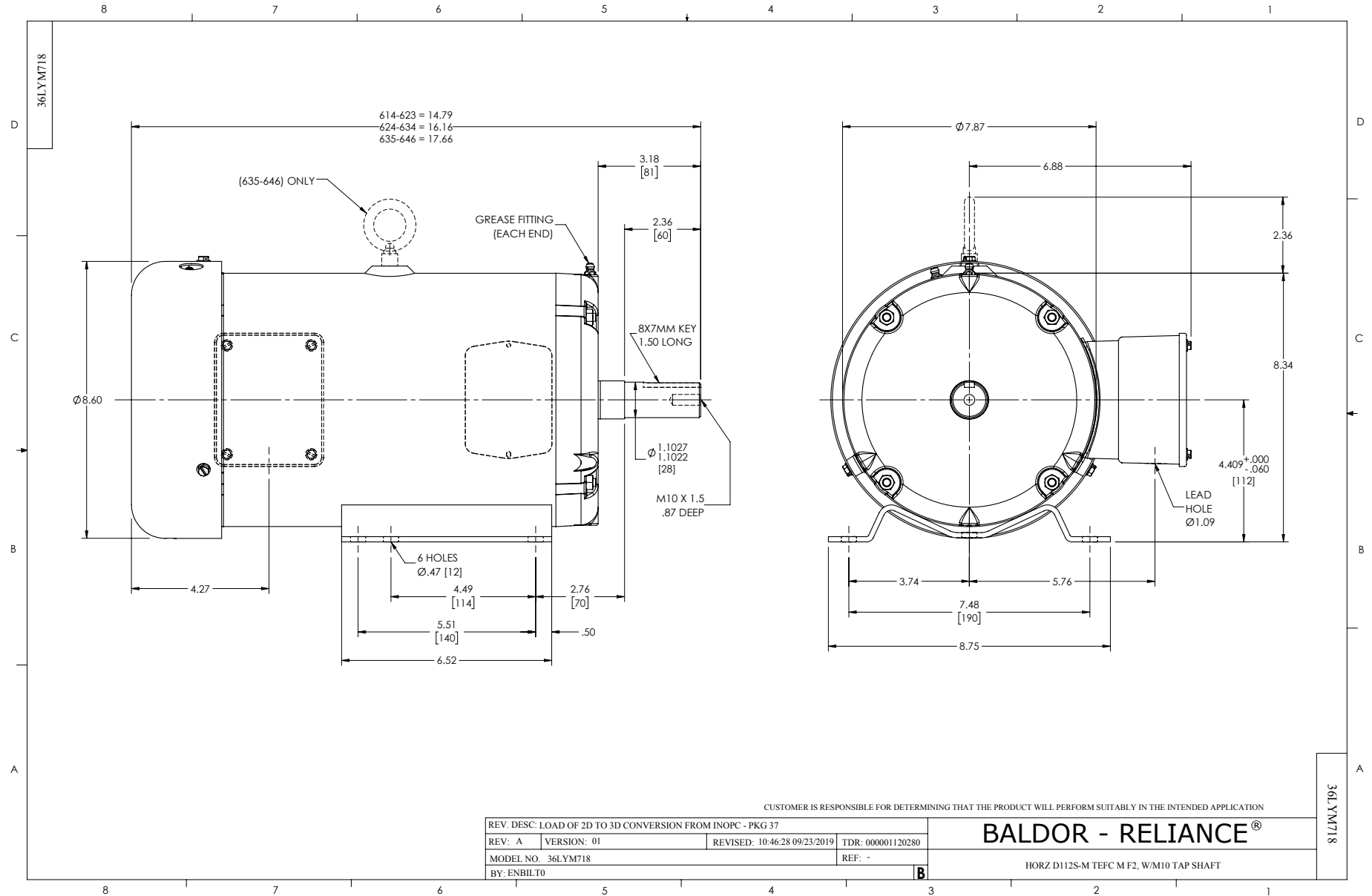
WINDING # 36WGS268

Typical performance - not guaranteed values.

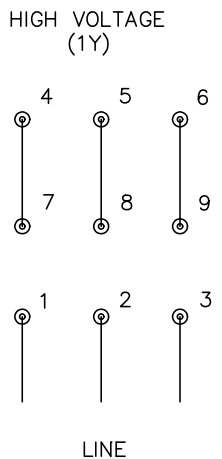
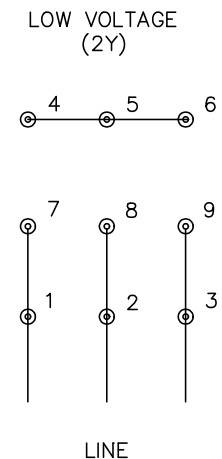
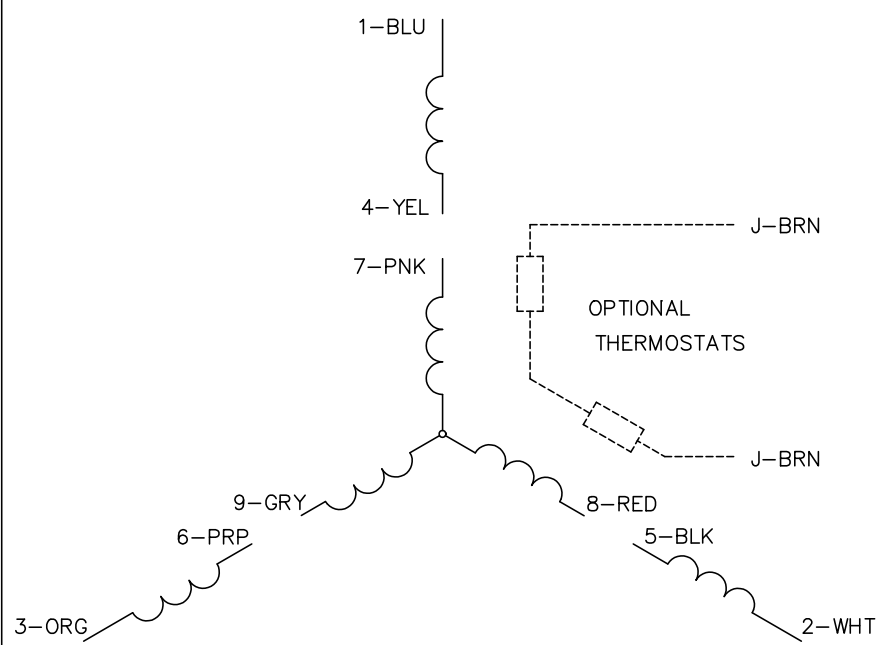
3.7 KW 3 PH 60 HZ 1750 RPM 460 V 3642M

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





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005