



Customer information packet

FDM3538

.5HP, 1725RPM, 3PH, 60HZ, 56, 3416M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56
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	.500 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	2.000 A @ 230.0 V 1.900 A @ 208.0 V 1.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	D
Type	AC
Mech. spec.	34M734
Base	
Status	PRD/A
Elec. spec.	34WG3649
Layout	34LYM734
Eff. date	01-02-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	08-04-2017

High Voltage Full Load Amps	1.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3416M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.35 IN
Power Factor	63
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	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP1279L													
CAT.NO.	FDM3538												
SPEC.	34M734-3649G1												
HP	.5												
VOLTS	208-230/460												
AMP	1.9-2/1												
RPM	1725												
FRAME	56		HZ	60		PH		3					
SER.F.	1.25		CODE	L		DES	B	CL	B				
NEMA-NOM-EFF	74		PF	63									
RATING	40C AMB-CONT												
CC													
DE	6203		ODE	6203									
ENCL	TEFC		SN										
SFA 2.2-2.4/1.2													

AC Induction Motor Performance Data

Record # 66172

Typical performance - not guaranteed values

Winding: 34WG3649-R034			Type: 3416M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		.5	Full Load Torque		1.5 LB-FT			
Volts		208-230/460	Start Configuration		direct on line			
Full Load Amps		1.9-2/1	Breakdown Torque		7 LB-FT			
R.P.M.		1725	Pull-up Torque		4.5 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		5.3 LB-FT		
NEMA Design Code		B	KVA Code	L	Starting Current		6.5 A	
Service Factor (S.F.)		1.25	No-load Current		0.8 A			
NEMA Nom. Eff.		74	Power Factor		63	Line-line Res. @ 25°C		33.3 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		65°C	
S.F. Amps		2.2-2.4/1.2	Temp. Rise @ S.F. Load		75°C			
			Locked-rotor Power Factor		66.1			
			Rotor inertia		0.0381 LB-FT2			

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	42	53	61	67	73	67
Efficiency	53.3	66.3	72.7	74.5	75.4	75.1	75.4
Speed	1782	1769	1754	1739	1724	1706	1724
Line amperes	0.8	0.85	0.92	1.03	1.15	1.25	1.15

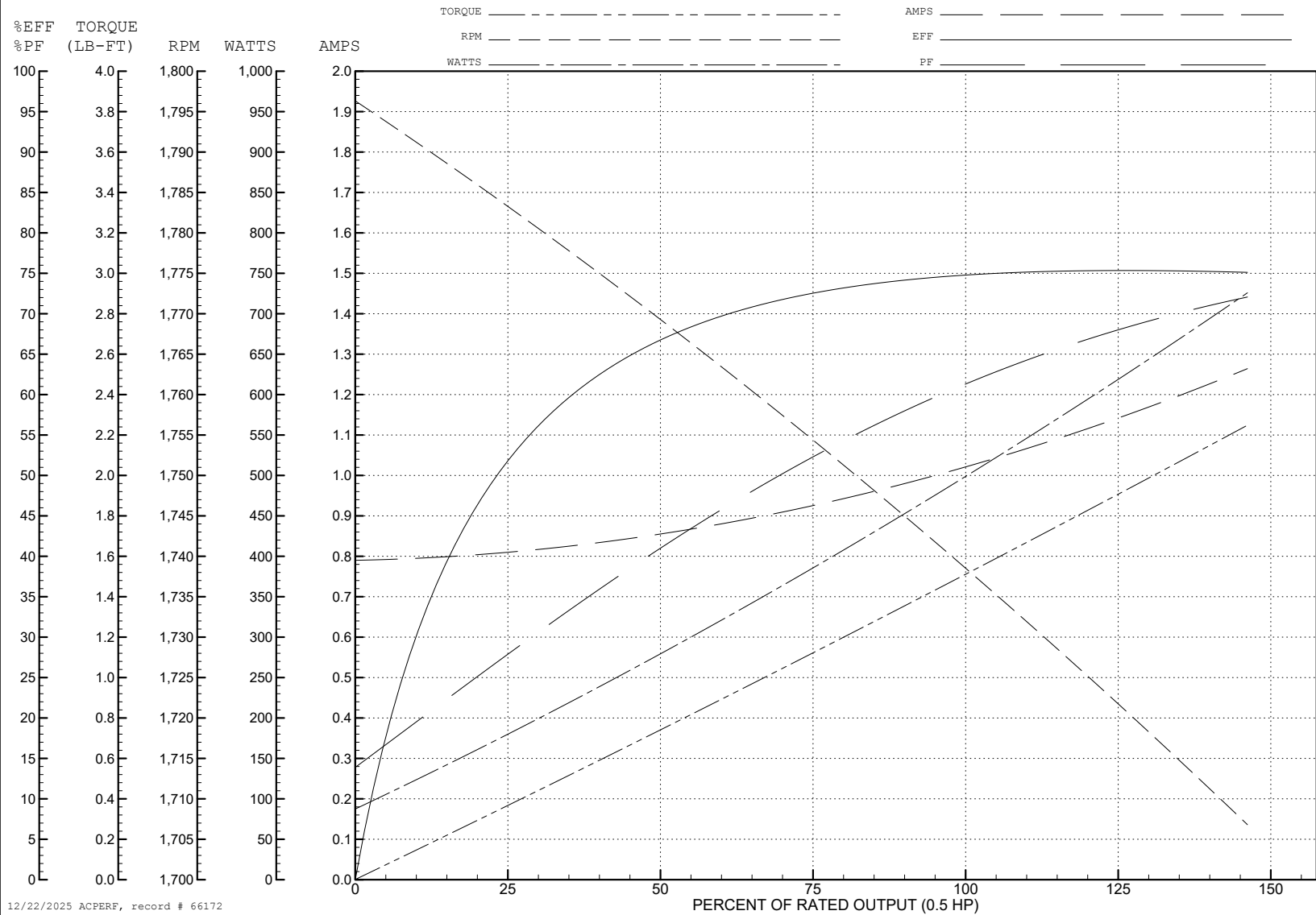
ABB Motors and Mechanical Inc.

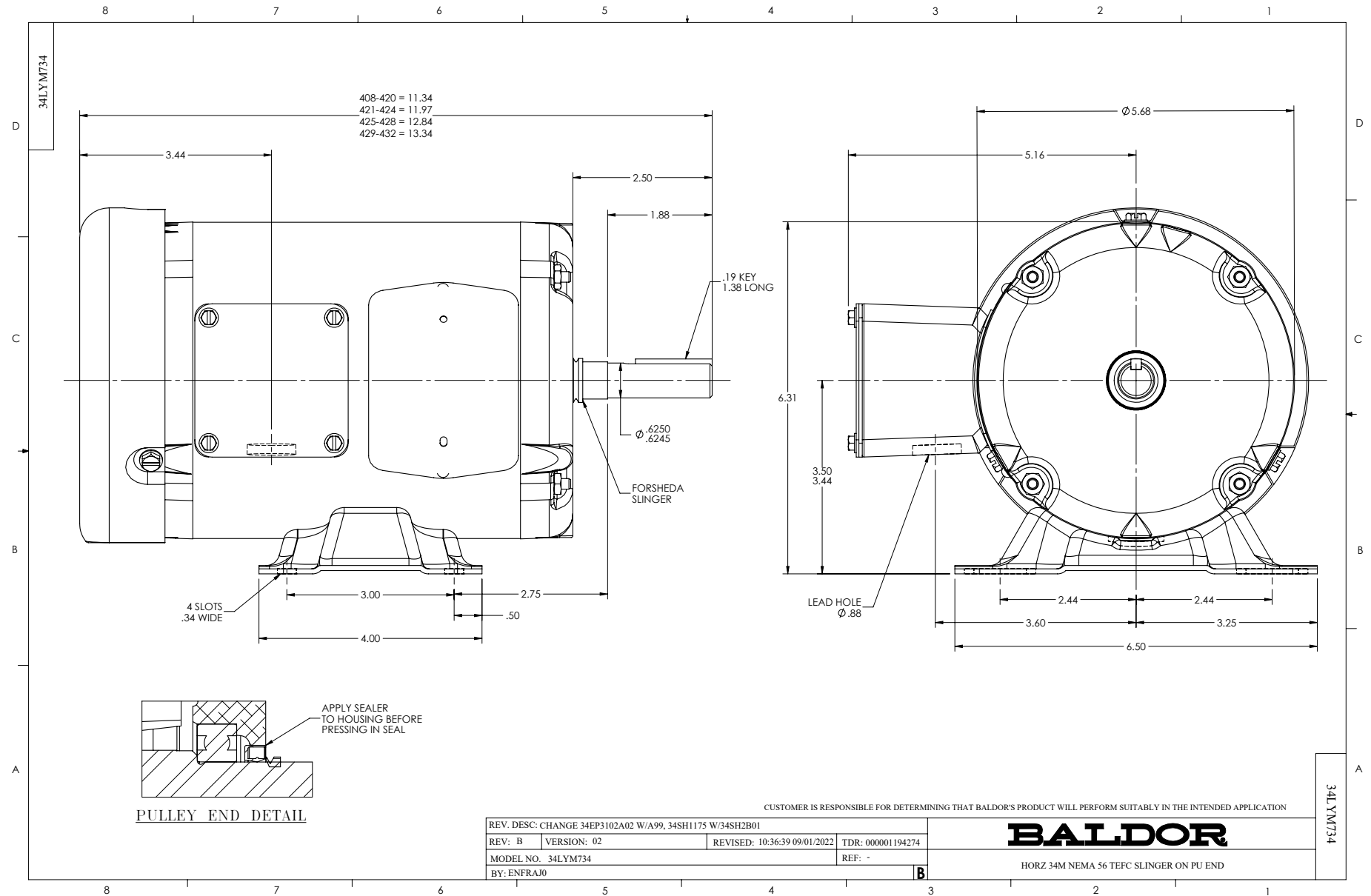
WINDING # 34WG3649

Typical performance - not guaranteed values.

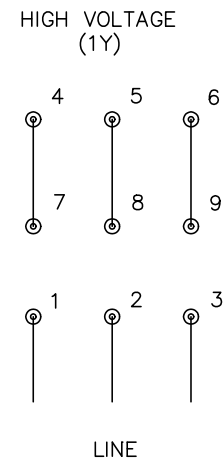
0.5 HP 3 PH 60 HZ 1725 RPM 460 V 3416M

TORQUES (LB-FT) : PO=7 PU=4.5 LR=5.3 LRA=6.5





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