



Customer information packet

VM8537

.5HP, 3450RPM, 3PH, 60HZ, 56C, 3410M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.000 A @ 460.0 V 2.000 A @ 230.0 V 2.600 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	R
Type	AC
Mech. spec.	34K038
Base	
Status	PRD/A
Elec. spec.	34WG0232
Layout	34LYK038
Eff. date	04-16-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	04-14-2008

High Voltage Full Load Amps	1.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3410M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.35 IN
Power Factor	63
Product Family	Dirty Duty (Not For DC)
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3450 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

NP1261									
CAT.NO.	VM8537								
SPEC.	34K038-0232G2								
HP	.5								
VOLTS	230/460								
AMP	2/1								
RPM	3450								
FRAME	56C	HZ	60	PH	3				
SER.F.	1.25	CODE	L	DES	B	CL	F		
NEMA-NOM-EFF	68	PF	63						
RATING	40C AMB-CONT								
CC									
DE	6203	ODE	6203						
ENCL	TEFC	SN							
	SFA 2.4/1.2								

AC Induction Motor Performance Data

Record # 36339

Typical performance - not guaranteed values

Winding: 34WG0232-R028		Type: 3410M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	.5	Full Load Torque	0.75 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	2/1	Breakdown Torque	3.4 LB-FT		
R.P.M.	3450	Pull-up Torque	2.7 LB-FT		
Hz	60	Locked-rotor Torque	3 LB-FT		
NEMA Design Code	B	Starting Current	6 A		
Service Factor (S.F.)	1.25	No-load Current	0.9 A		
NEMA Nom. Eff.	68	Line-line Res. @ 25°C	35.1 Ω		
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	58°C		
S.F. Amps	2.4/1.2	Temp. Rise @ S.F. Load	69°C		
		Locked-rotor Power Factor	78		
		Rotor inertia	0.0093 LB-FT ²		

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	44	56	64	70	77	70
Efficiency	41.4	56.3	64	67.2	68.4	68.5	68.4
Speed	3563	3535	3501	3466	3432	3381	3432
Line amperes	0.91	0.97	1.01	1.1	1.2	1.33	1.2

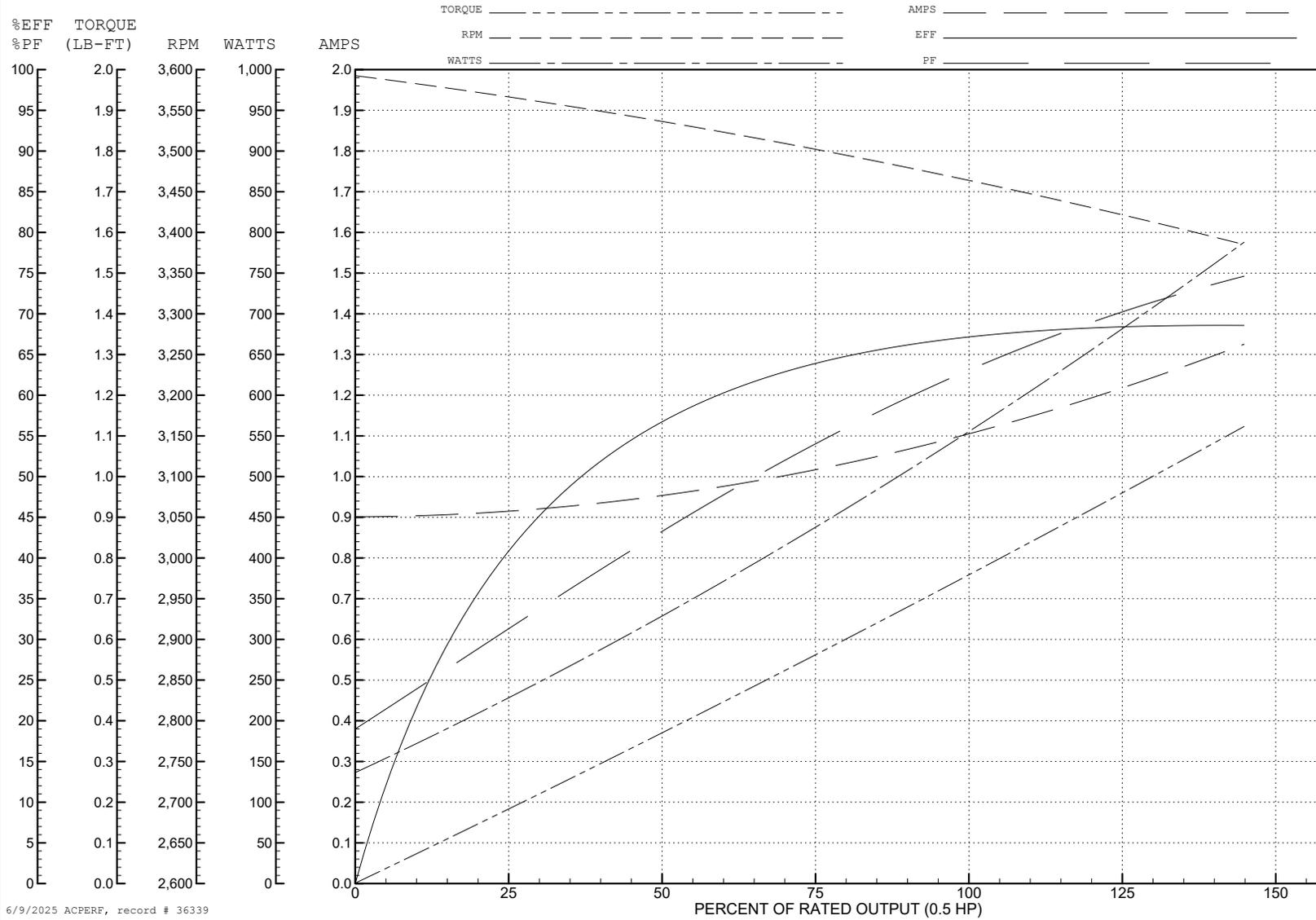
ABB Motors and Mechanical Inc.

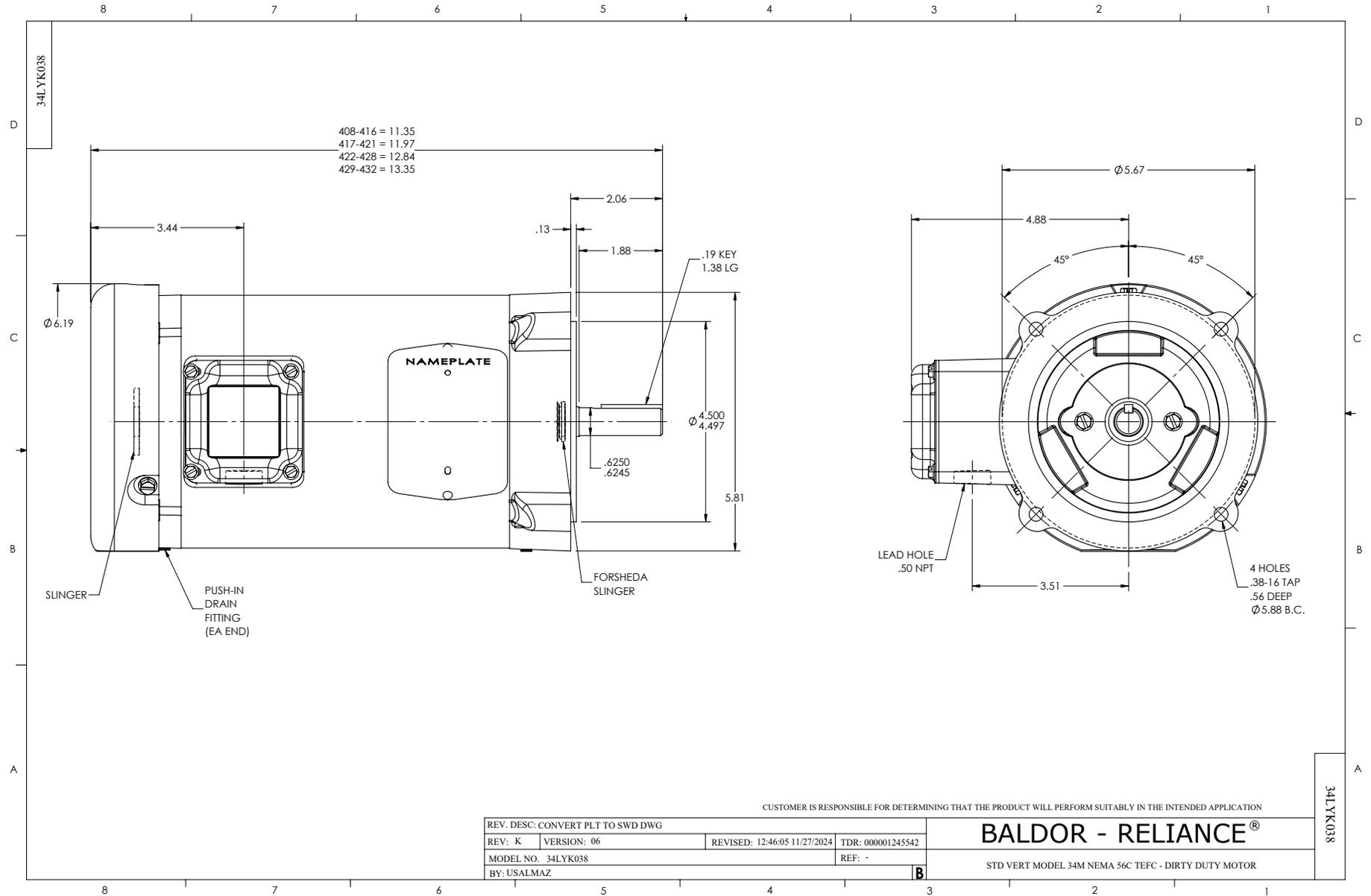
WINDING # 34WG0232

Typical performance - not guaranteed values.

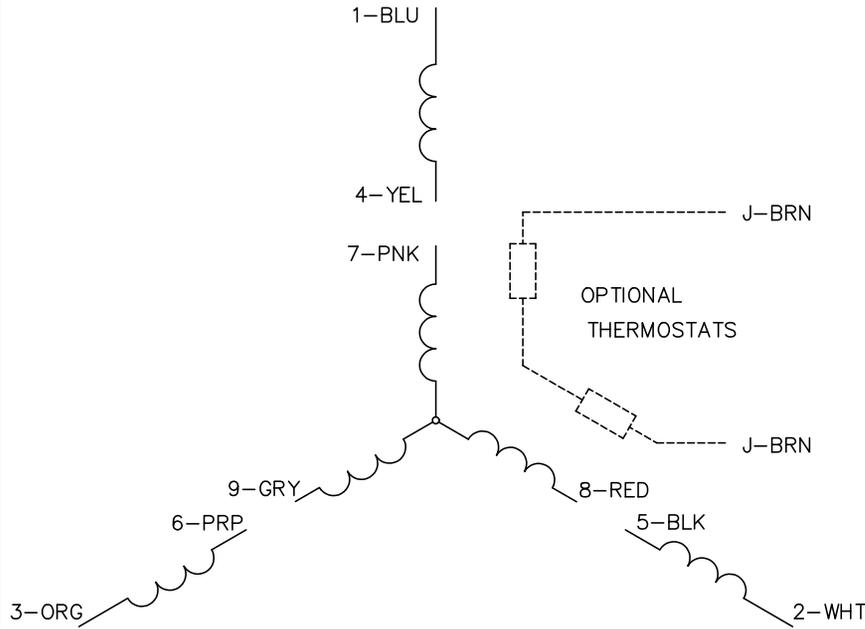
0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3410M

TORQUES (LB-FT): PO=3.4 PU=2.7 LR=3 LRA=6

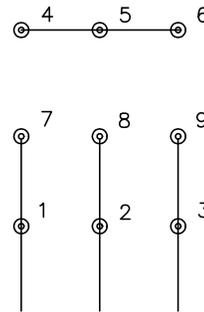




CD0005

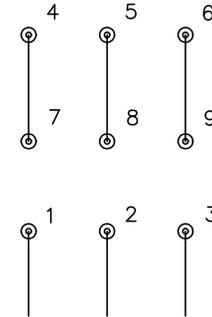


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS