ABB BALDOR RELIANCE

Customer information packet

VM8537

.5HP, 3450RPM, 3PH, 60HZ, 56C, 3410M, TEFC, F1
Class - None
Division - Not Applicable

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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
Auxiliary Box	NO AUXILLARY BOX
Auxiliary 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 **Phase**	3	**Locked-rotor Torque**	3 LB-FT
NEMA Design Code	B **KVA Code**	L	**Starting Current**	6 A
Service Factor (S.F.)		1.25	**No-load Current**	0.9 A
NEMA Nom. Eff.	68 **Power Factor**	63	**Line-line Res. @ 25ºC**	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-FT2

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

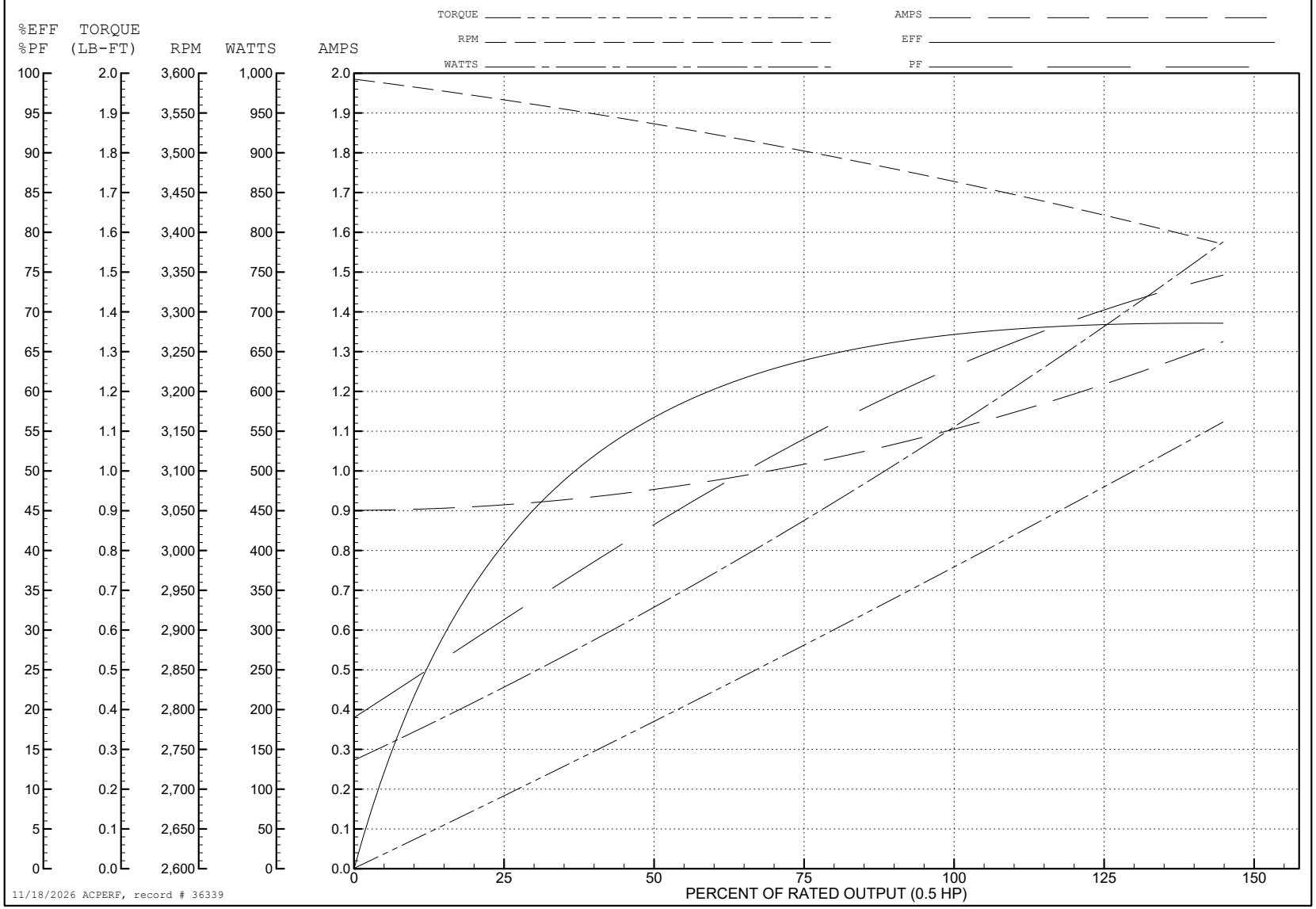
ABB Motors and Mechanical Inc.

WINDING # 34WG0232

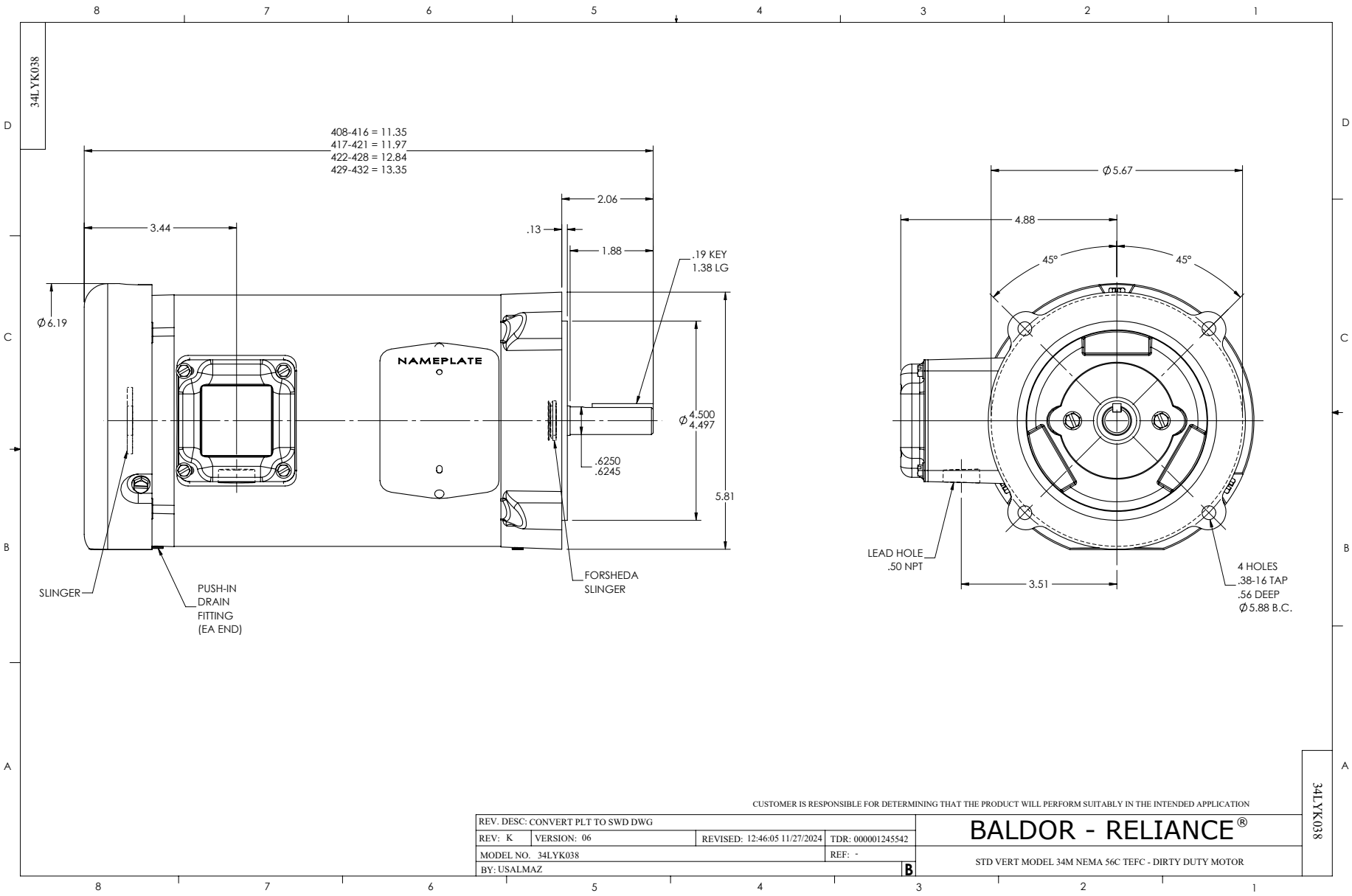
0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3410M

Typical performance - not guaranteed values.

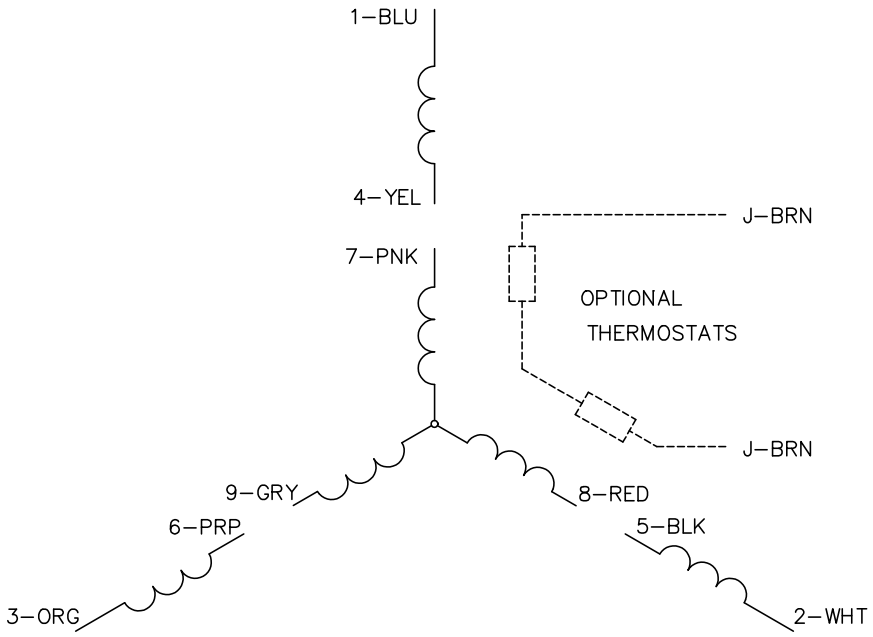
TORQUES(LB-FT): PO=3.4 PU=2.7 LR=3 LRA=6

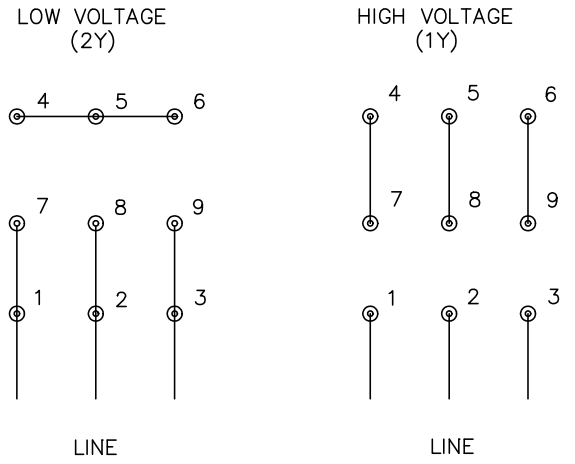


11/18/2026 ACPERF, record # 36339


34LYK038
408-416 = 11.35
417-421 = 11.97
422-428 = 12.84
429-432 = 13.35
3.44
2.06
.13
1.88
.19 KEY
1.38 LG
Ø6.19
NAMEPLATE
Ø4.500
4.497
.6250
.6245
5.81
SLINGER
PUSH-IN
DRAIN
FITTING
(EA END)
FORSHEDA
SLINGER
Ø5.67
4.88
45°
45°
LEAD HOLE
.50 NPT
3.51
4 HOLES
.38-16 TAP
.56 DEEP
Ø5.88 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT PLT TO SWD DWG
REV: K
VERSION: 06
REVISED: 12:46:05 11/27/2024
TDR: 000001245542
MODEL NO. 34LYK038
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD VERT MODEL 34M NEMA 56C TEFC - DIRTY DUTY MOTOR
34LYK038

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