ABB BALDOR RELIANCE

Customer information packet

RM3108A

.5 AIR OVERHP, 1725RPM, 3PH, 60HZ, 56, 3413M
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
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	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	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	.900 A @ 460.0 V
	1.800 A @ 230.0 V
	2.300 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	M
Type	AC
Mech. spec.	34K019
Base	
Status	PRD/A
Elec. spec.	34WGR030
Layout	34LYK019
Eff. date	10-28-2024
CD Diagram	CD0007
Poles	04
Leads	12#18
Proprietary	False
Created date	04-05-2013

High Voltage Full Load Amps	0.9 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	12 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3413M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	10.97 IN
Power Factor	68
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
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	No 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	Automatic Thermal Overload

Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	RM3108A										
SPEC.	34K019R030G1										
HP	.5 AIR OVER										
VOLTS	230/460										
AMP	1.8/.9										
RPM	1725										
FRAME	56		**HZ**	60		**PH**	3				
SER.F.	1.25	**CODE**	J	**DES**	B	**CL**	B				
NEMA-NOM-EFF	72	**PF**	68								
RATING	40C AMB-CONT										
CC											
DE	6203	**ODE**	6203								
ENCL	OPEN	**SN**									
	SFA 2/1										

AC Induction Motor Performance Data
Record # 41850
Typical performance - not guaranteed values

Winding: 34WGR030-R001	**Type:** 3413M	**Enclosure:** OPAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	1.51 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.8/.9	**Breakdown Torque**	4.56 LB-FT
R.P.M.			1725	**Pull-up Torque**	2.77 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	3.81 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	4.91 A
Service Factor (S.F.)			1.25	**No-load Current**	0.669 A
NEMA Nom. Eff.	72	**Power Factor**	68	**Line-line Res. @ 25ºC**	48.65 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
S.F. Amps			2/1	**Temp. Rise @ S.F. Load**	
				Locked-rotor Power Factor	69
				Rotor inertia	0.031 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	46	58	68	74	79	74
Efficiency	55.9	74.4	77.4	77.4	77.8	75	77.8
Speed	1782	1767	1749	1729	1711	1685	1711
Line amperes	0.684	0.723	0.79	0.886	0.983	1.126	0.983

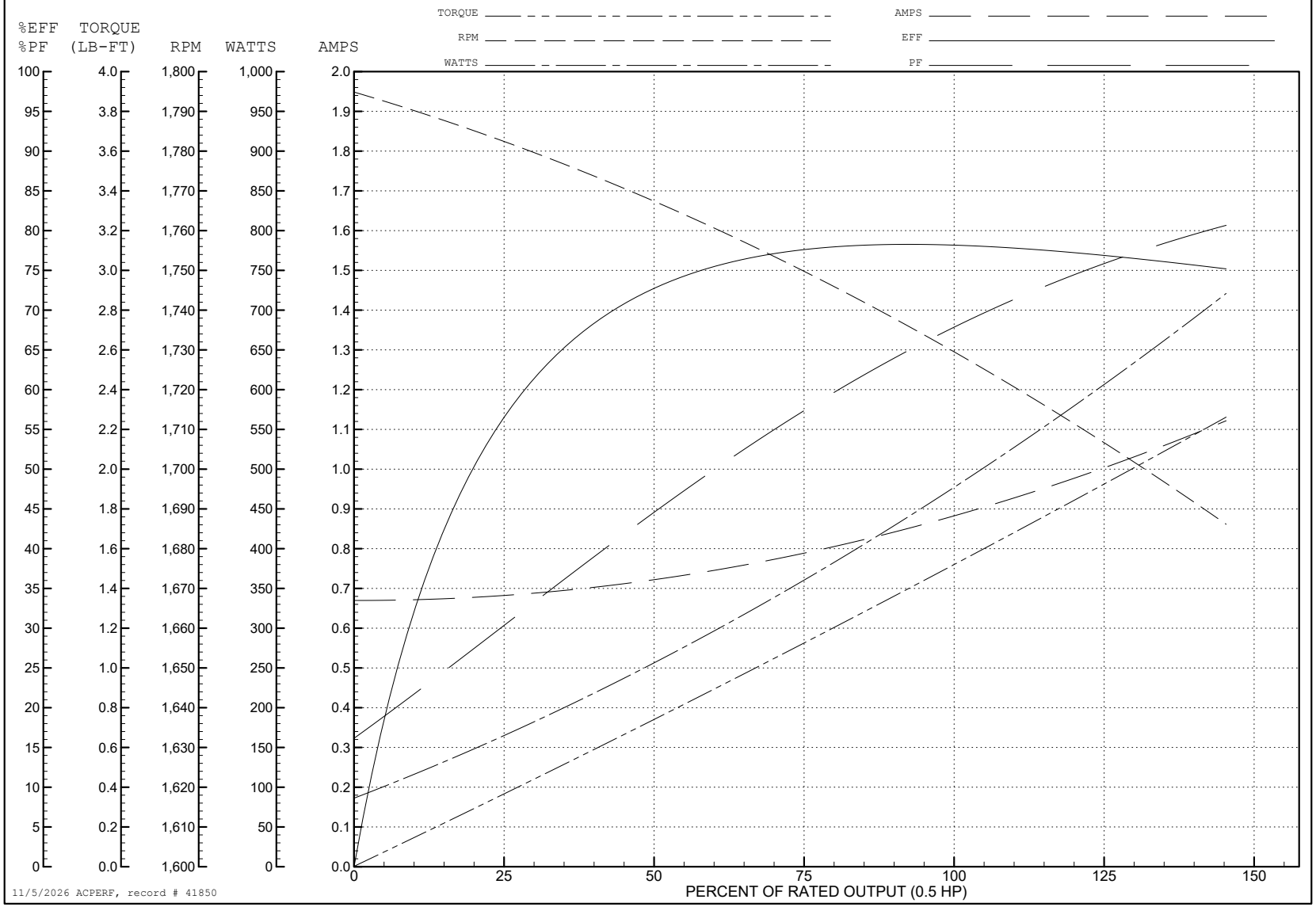
ABB Motors and Mechanical Inc.

WINDING # 34WGR030

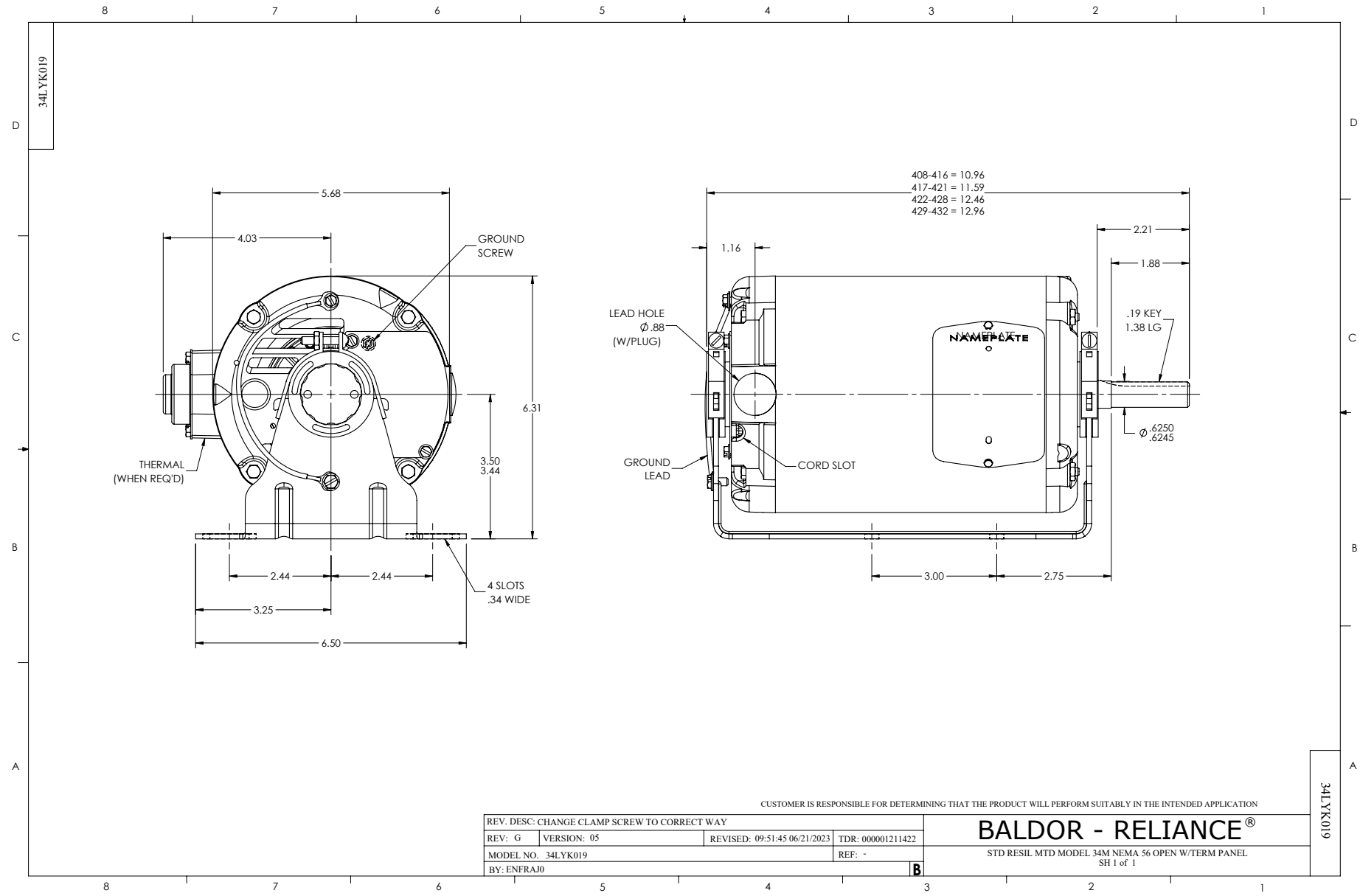
0.5 HP 3 PH 60 HZ 1725 RPM 460 V 3413M

Typical performance - not guaranteed values.

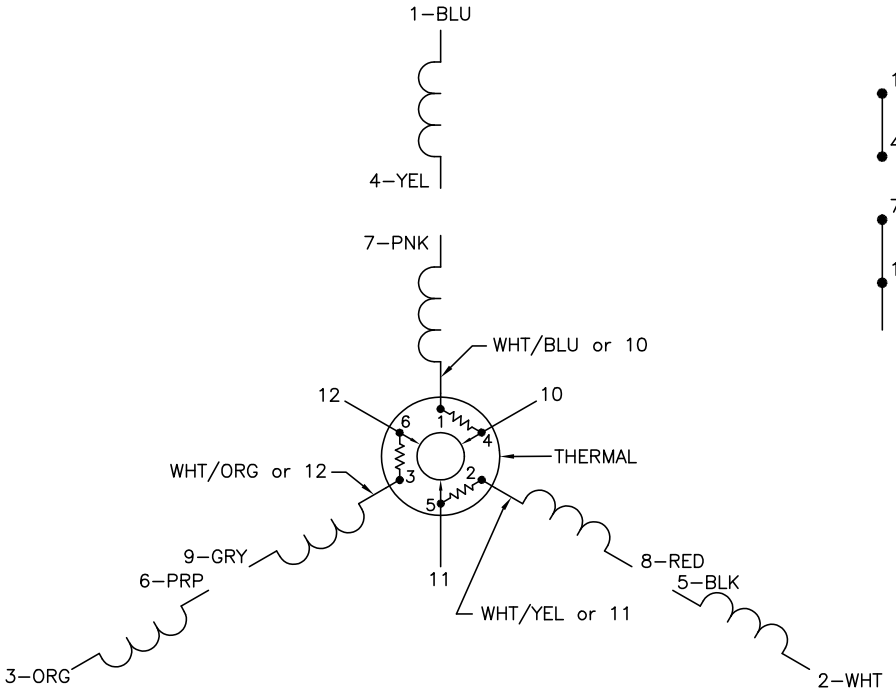
TORQUES(LB-FT): PO=4.56 PU=2.77 LR=3.81 LRA=4.91

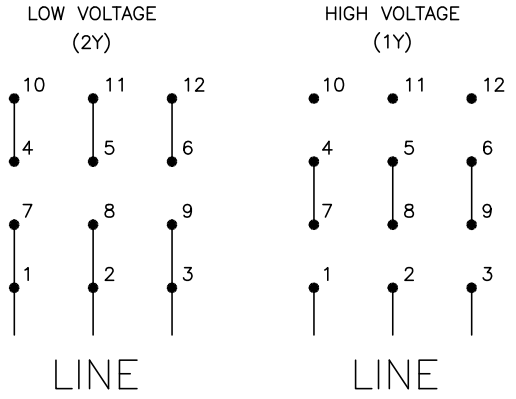


11/5/2026 ACPERF, record # 41850


34LYK019
5.68
4.03
GROUND SCREW
6.31
3.50
3.44
THERMAL (WHEN REQ'D)
2.44
2.44
4 SLOTS .34 WIDE
3.25
6.50
408-416 = 10.96
417-421 = 11.59
422-428 = 12.46
429-432 = 12.96
1.16
2.21
1.88
.19 KEY
1.38 LG
LEAD HOLE Ø .88 (W/PLUG)
NAMEPLATE
Ø .6250
.6245
GROUND LEAD
CORD SLOT
3.00
2.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: G
VERSION: 05
REVISED: 09:51:45 06/21/2023
TDR: 000001211422
MODEL NO. 34LYK019
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
STD RESIL MTD MODEL 34M NEMA 56 OPEN W/TERM PANEL
SH 1 of 1
34LYK019

CD0007





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED "CK" PLANT CODE			BALDOR ELECTRIC Co.
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
CD0007		FILE: AAA00008370	MDL: –
		MTL: –	3PH, DV, THERMAL, 12 LEADS

CD0007