

ABB BALDOR RELIANCE III

Customer information packet

RM3009

.5HP, 3450RPM, 3PH, 60HZ, 48, 3410M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	48
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	CSA UR
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	2.600 A @ 208.0 V 2.000 A @ 230.0 V 1.000 A @ 460.0 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	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	P
Type	AC
Mech. spec.	34K015
Base	
Status	NLA/A
Elec. spec.	34WG0232
Layout	34LYK015
Eff. date	01-23-2015
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	1.0 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 Or Lead Hole
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	10.34 IN
Power Factor	63
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	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

Nameplate

NP1256L											
CAT.NO.	RM3009										
SPEC.	34K15-232										
HP	.5										
VOLTS	230/460										
AMP	2/1										
RPM	3450										
FRAME	48			HZ		60			PH		3
SER.F.	1.25	CODE		J	DES	B	CLASS		B		
NEMA-NOM-EFF	68	PF		63							
RATING	40C AMB-CONT										
CC											
DE	6203			ODE		6203					
ENCL	OPEN	SN									
	SFA 2.4/1.2										

AC Induction Motor Performance Data

Record # 6559

Typical performance - not guaranteed values

Winding: 34WG0232-R001			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. @ 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-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

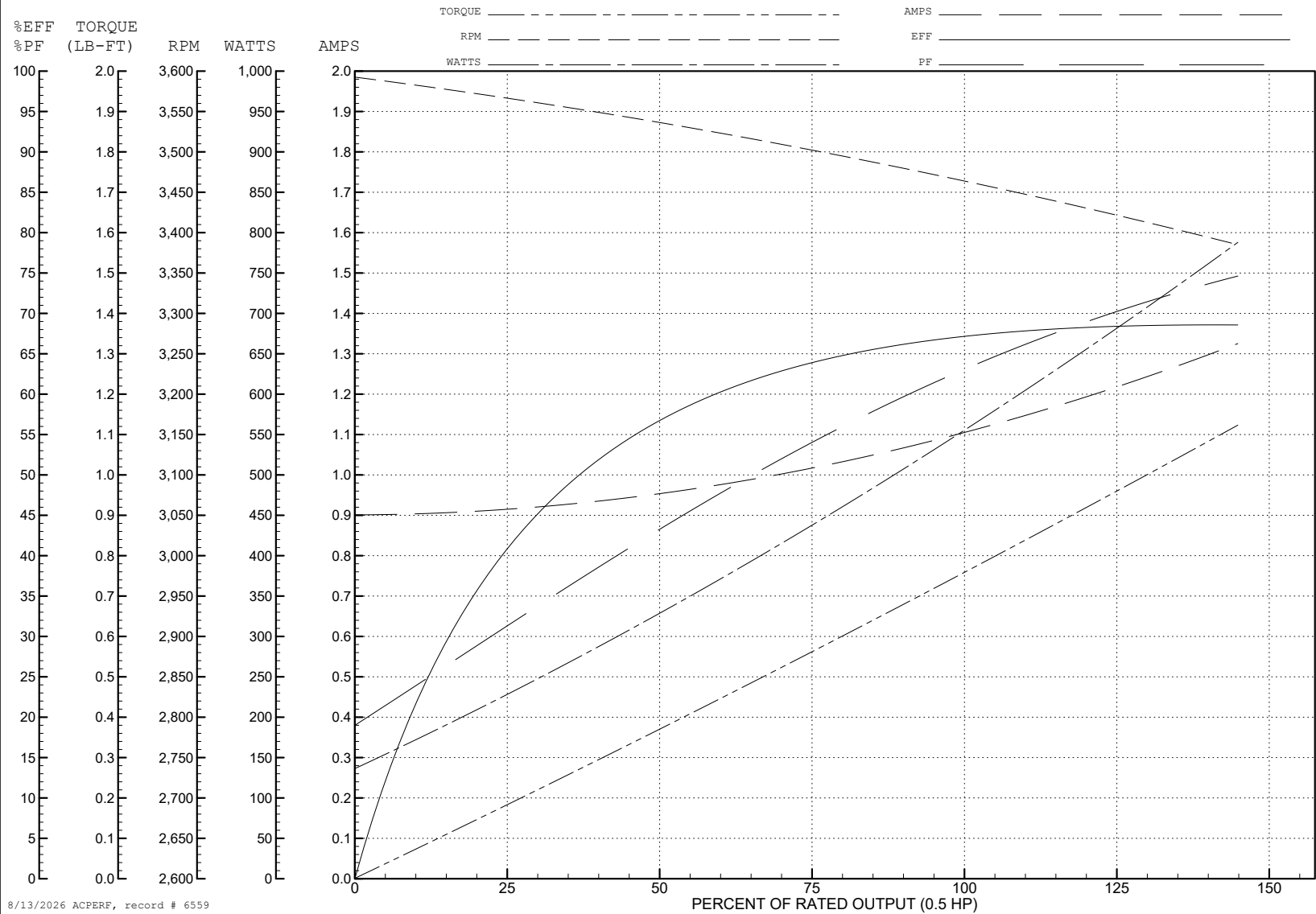
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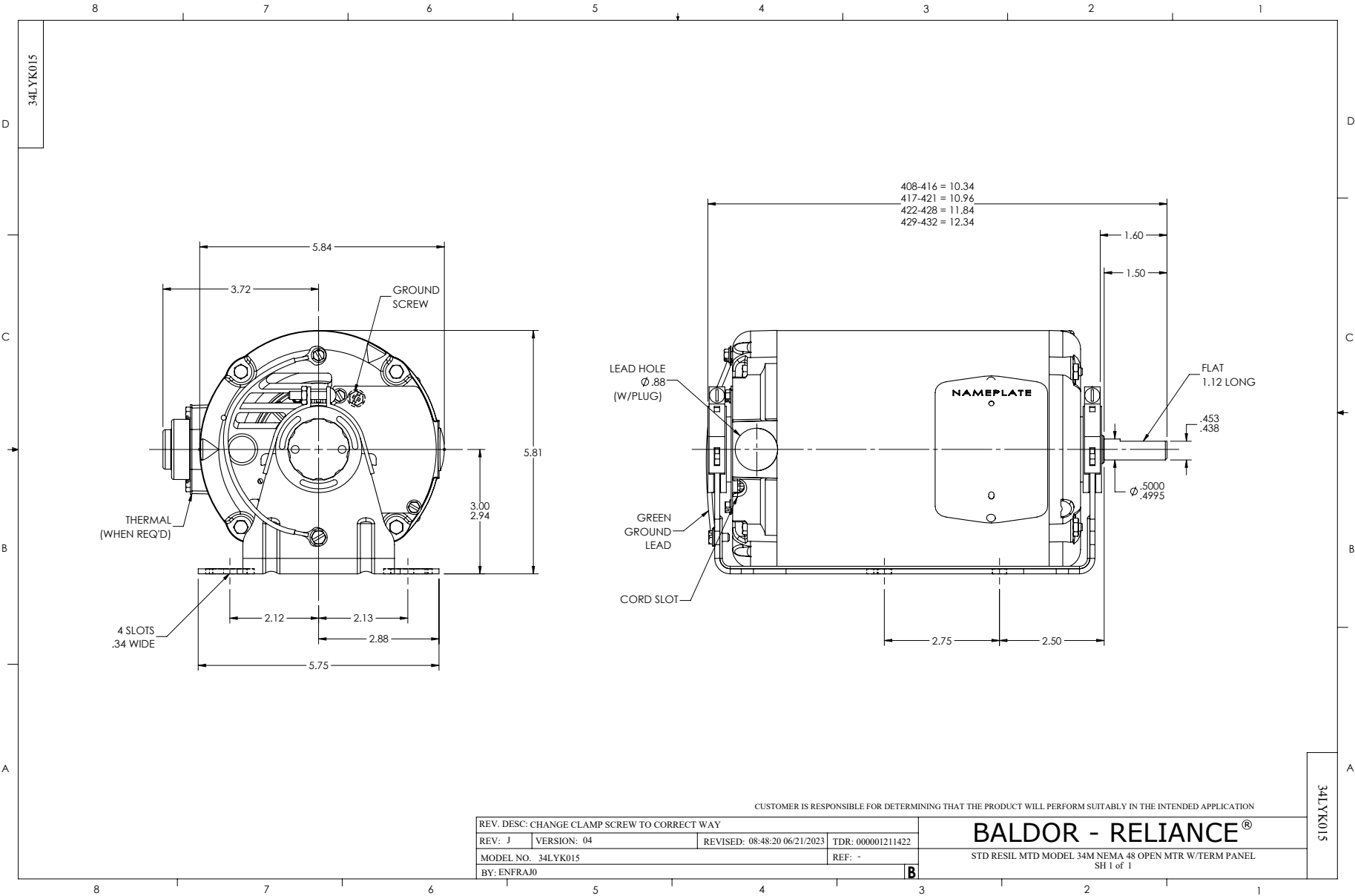
WINDING # 34WG0232

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



- 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