ABB BALDOR RELIANCE

Customer information packet

EM30007

.33HP, 1725RPM, 3PH, 60HZ, 48, 3416M, OPEN, F1
Class - None
Division - Not Applicable

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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	.330 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	CURUSEEV
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	.700 A @ 460.0 V
	1.400 A @ 230.0 V
	1.700 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	73.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.7 a

Part Detail

Revision	G
Type	AC
Mech. spec.	34F002
Base	
Status	PRD/A
Elec. spec.	34WGS936
Layout	34LYF002
Eff. date	12-31-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-03-2014

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3416M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	9.13 IN
Power Factor	66
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	1.35
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	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

NP3155L											
CAT.NO.	EM30007										
SPEC.	34F002S936G1										
HP	.33										
VOLTS	230/460										
AMP	1.4/.7										
RPM	1725										
FRAME	48		**HZ**	60			**PH**	3			
SER.F.	1.35	**CODE**	N	**DES**	B	**CL**	B				
F.L. AVG. EFF.	73.4	**PF**	66								
RATING	40C AMB-CONT										
CC											
DE	6203		**ODE**	6203							
ENCL	OPEN	**SN**									
	SFA 1.6/.8										

AC Induction Motor Performance Data
Record # 47464
Typical performance - not guaranteed values

Winding: 34WGS936-R002	**Type:** 3416M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.33	**Full Load Torque**	1.007 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.4/.7	**Breakdown Torque**	4.56 LB-FT
R.P.M.			1725	**Pull-up Torque**	3.18 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	3.82 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	4.74 A
Service Factor (S.F.)			1.35	**No-load Current**	0.445 A
NEMA Nom. Eff.	73.4	**Power Factor**	66	**Line-line Res. @ 25ºC**	43.915 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	18°C
S.F. Amps			1.6/.8	**Temp. Rise @ S.F. Load**	24°C
				Locked-rotor Power Factor	58
				Rotor inertia	0.0381 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	45	57	66	73	78	75
Efficiency	55.9	69.8	74.8	76.7	76.9	76.2	76.6
Speed	1785.9	1772.3	1758.5	1743.2	1726.8	1709.1	1720
Line amperes	0.458	0.497	0.55	0.617	0.696	0.787	0.732

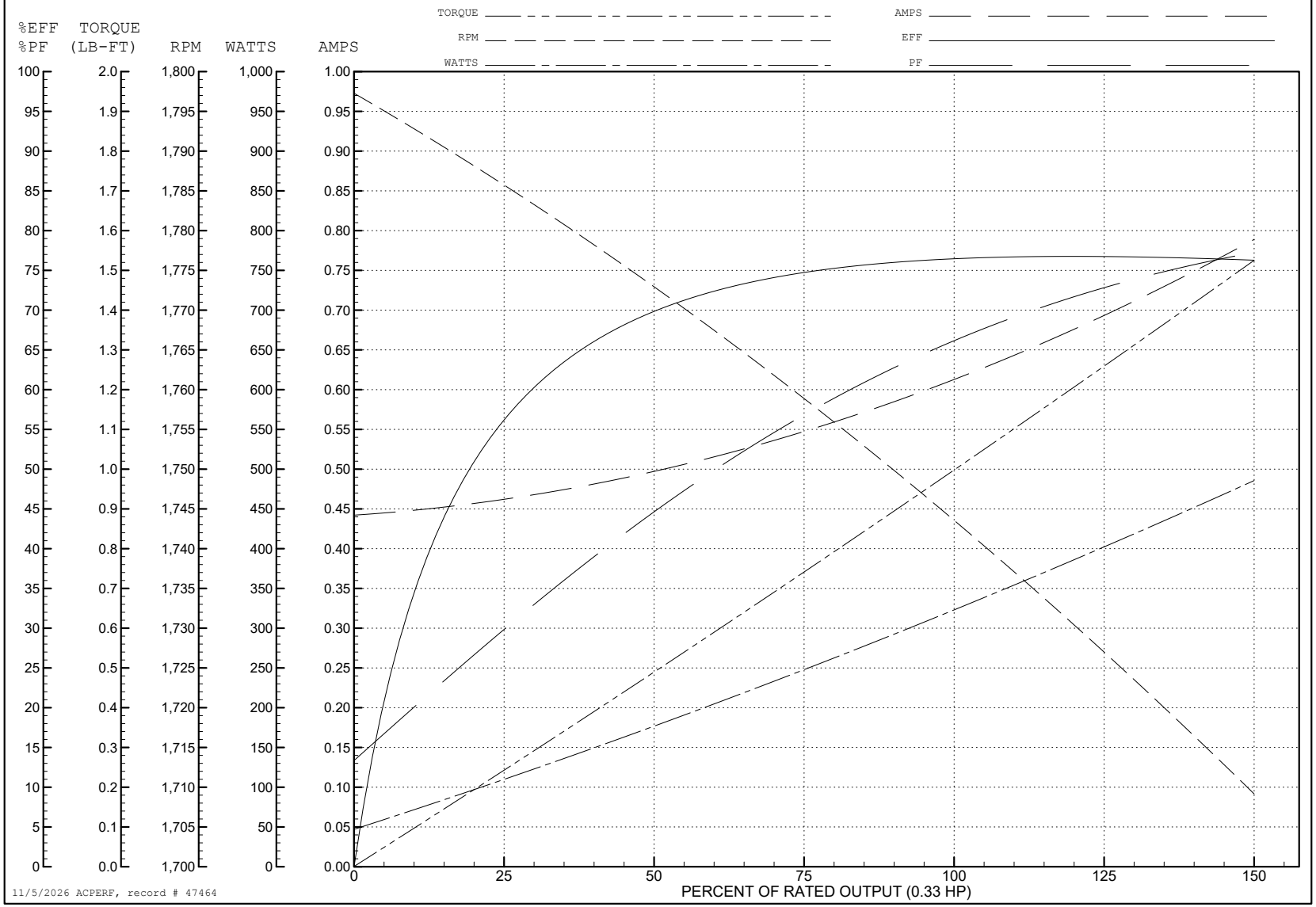
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WINDING # 34WGS936

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

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=4.56 PU=3.18 LR=3.82 LRA=4.74



AC Induction Motor Performance Data
Record # 49379
Typical performance - not guaranteed values

Winding: 34WGS936-R002	**Type:** 3416M	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			.33	**Full Load Torque**	1.01 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.4/.7	**Breakdown Torque**	4.56 LB-FT
R.P.M.			1725	**Pull-up Torque**	3.18 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	3.82 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	9.48 A
Service Factor (S.F.)			1.35	**No-load Current**	0.89 A
NEMA Nom. Eff.	73.4	**Power Factor**	66	**Line-line Res. @ 25ºC**	10.5 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	18°C
S.F. Amps			1.6/.8	**Temp. Rise @ S.F. Load**	23°C
				Locked-rotor Power Factor	58.4
				Rotor inertia	0.0381 LB-FT2

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	45	57	66	73	78	75
Efficiency	55.8	69.9	74.8	77	76.7	76.4	76.6
Speed	1786	1772	1759	1743	1727	1709	1720
Line amperes	0.915	0.993	1.1	1.23	1.39	1.57	1.46

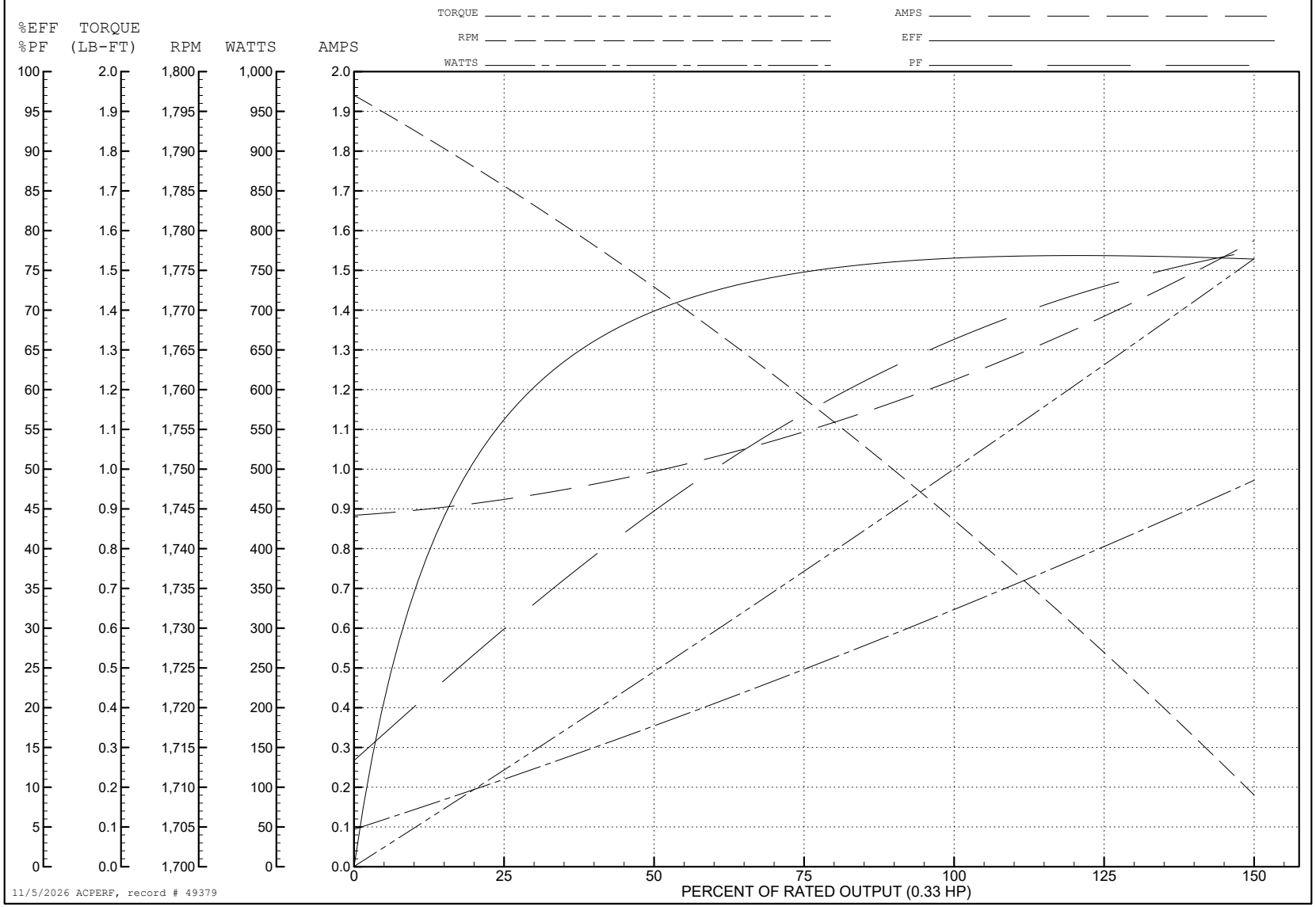
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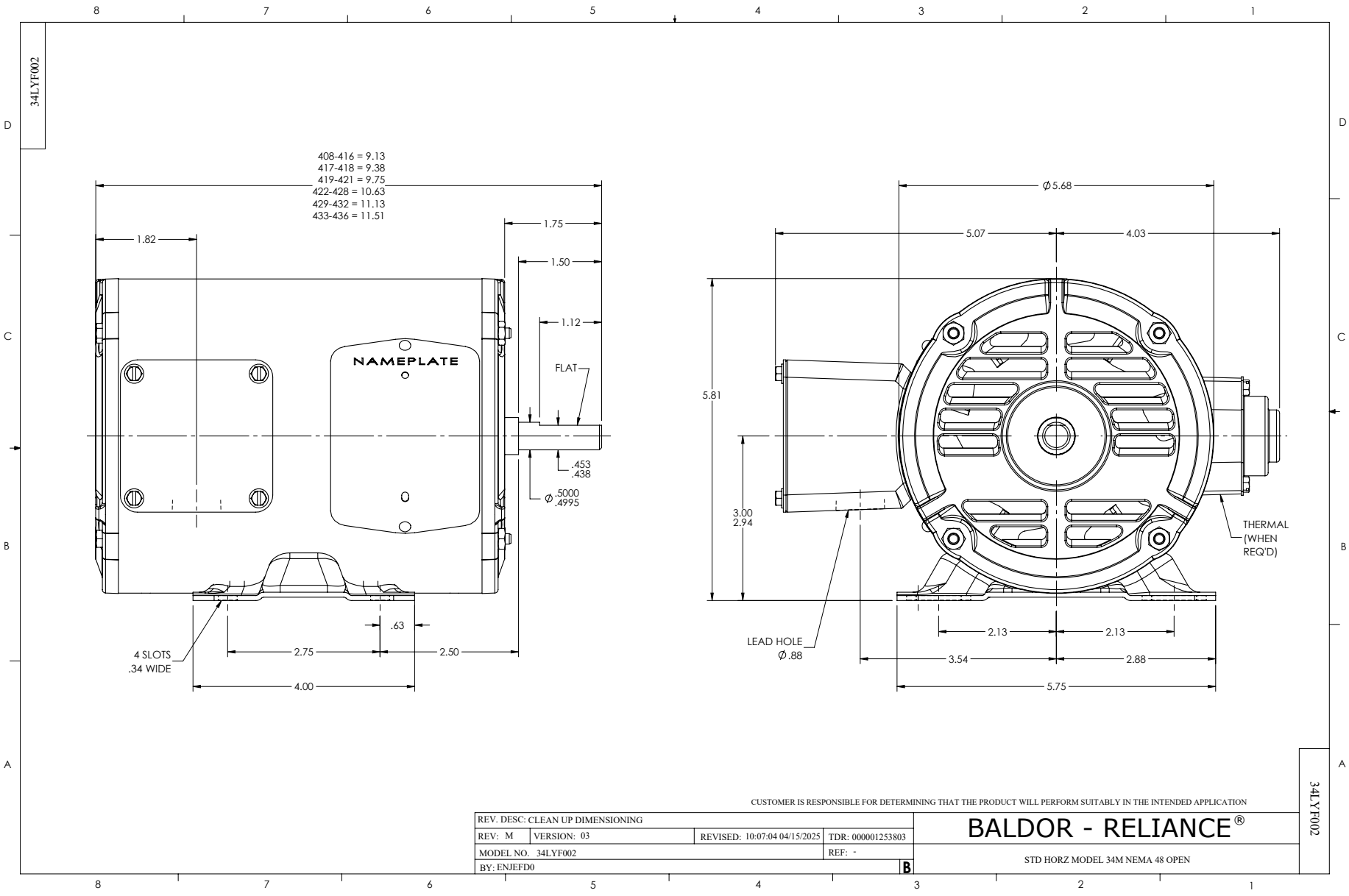
WINDING # 34WGS936

0.33 HP 3 PH 60 HZ 1725 RPM 230 V 3416M

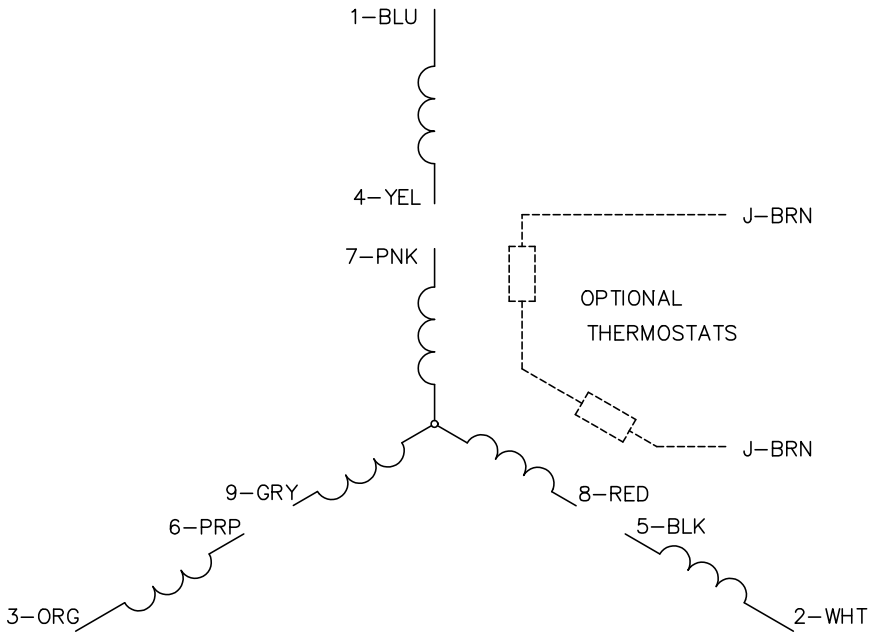
Typical performance - not guaranteed values.

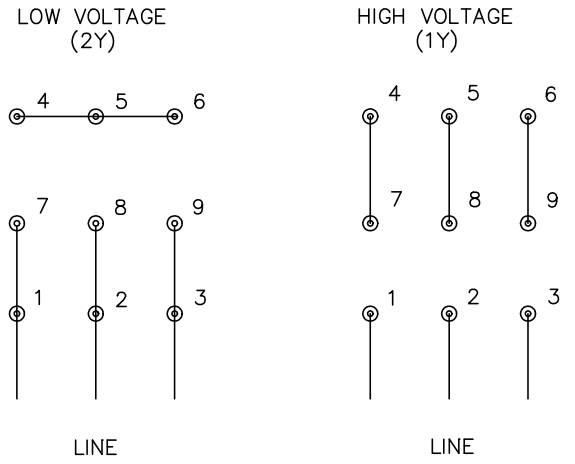
TORQUES(LB-FT): PO=4.56 PU=3.18 LR=3.82 LRA=9.48




34LYF002
408-416 = 9.13
417-418 = 9.38
419-421 = 9.75
422-428 = 10.63
429-432 = 11.13
433-436 = 11.51
1.82
1.75
1.50
1.12
FLAT
NAMEPLATE
.453
.438
Ø .5000
.4995
.63
4 SLOTS
.34 WIDE
2.75
2.50
4.00
Ø5.68
5.07
4.03
5.81
3.00
2.94
THERMAL
(WHEN
REQ'D)
LEAD HOLE
Ø .88
2.13
2.13
3.54
2.88
5.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CLEAN UP DIMENSIONING
REV: M
VERSION: 03
REVISED: 10:07:04 04/15/2025
TDR: 000001253803
MODEL NO. 34LYF002
REF: -
BY: ENJEFD0
B
BALDOR - RELIANCE®
STD HORZ MODEL 34M NEMA 48 OPEN
34LYF002

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