ABB BALDOR RELIANCE

Customer information packet

EM30006

.33HP, 3450RPM, 3PH, 60HZ, 48, 3413M, ODP, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	ODP
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	3600 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	.600 A @ 460.0 V
	1.200 A @ 230.0 V
	1.500 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	69.5 %
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	0.6 a

Part Detail

Revision	H
Type	AC
Mech. spec.	34B051
Base	
Status	PRD/A
Elec. spec.	34WGR140
Layout	34LYB051
Eff. date	12-30-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	03-06-2014

Insulation Class	F
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	3413M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	9.62 IN
Power Factor	77
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	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

NP3155L									
CAT.NO.	EM30006								
SPEC.	34B051R140G1								
HP	.33								
VOLTS	230/460								
AMP	1.2/.6								
RPM	3450								
FRAME	48	**HZ**	60				**PH**	3	
SER.F.	1.35	**CODE**	N	**DES**	B	**CL**	F		
F.L. AVG. EFF.	69.5	**PF**	77						
RATING	40C AMB-CONT								
CC									
DE	6203	**ODE**	6203						
ENCL	ODP	**SN**							
	SFA 1.4/.7								

AC Induction Motor Performance Data
Record # 44910
Typical performance - not guaranteed values

Winding: 34WGR140-R001	**Type:** 3413M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.33	**Full Load Torque**	0.502 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.2/.6	**Breakdown Torque**	2.52 LB-FT
R.P.M.			3450	**Pull-up Torque**	2.29 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	2.37 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	4.66 A
Service Factor (S.F.)			1.35	**No-load Current**	0.388 A
NEMA Nom. Eff.	69.5	**Power Factor**	77	**Line-line Res. @ 25ºC**	42 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	14°C
S.F. Amps			1.4/.7	**Temp. Rise @ S.F. Load**	16°C
				Locked-rotor Power Factor	72
				Rotor inertia	0.0121 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	44	59	69	77	82	85	83
Efficiency	43.9	59.5	67.4	71.1	73.6	74.7	74
Speed	3558	3534	3508	3480	3452	3420	3439
Line amperes	0.408	0.448	0.51	0.572	0.645	0.73	0.679

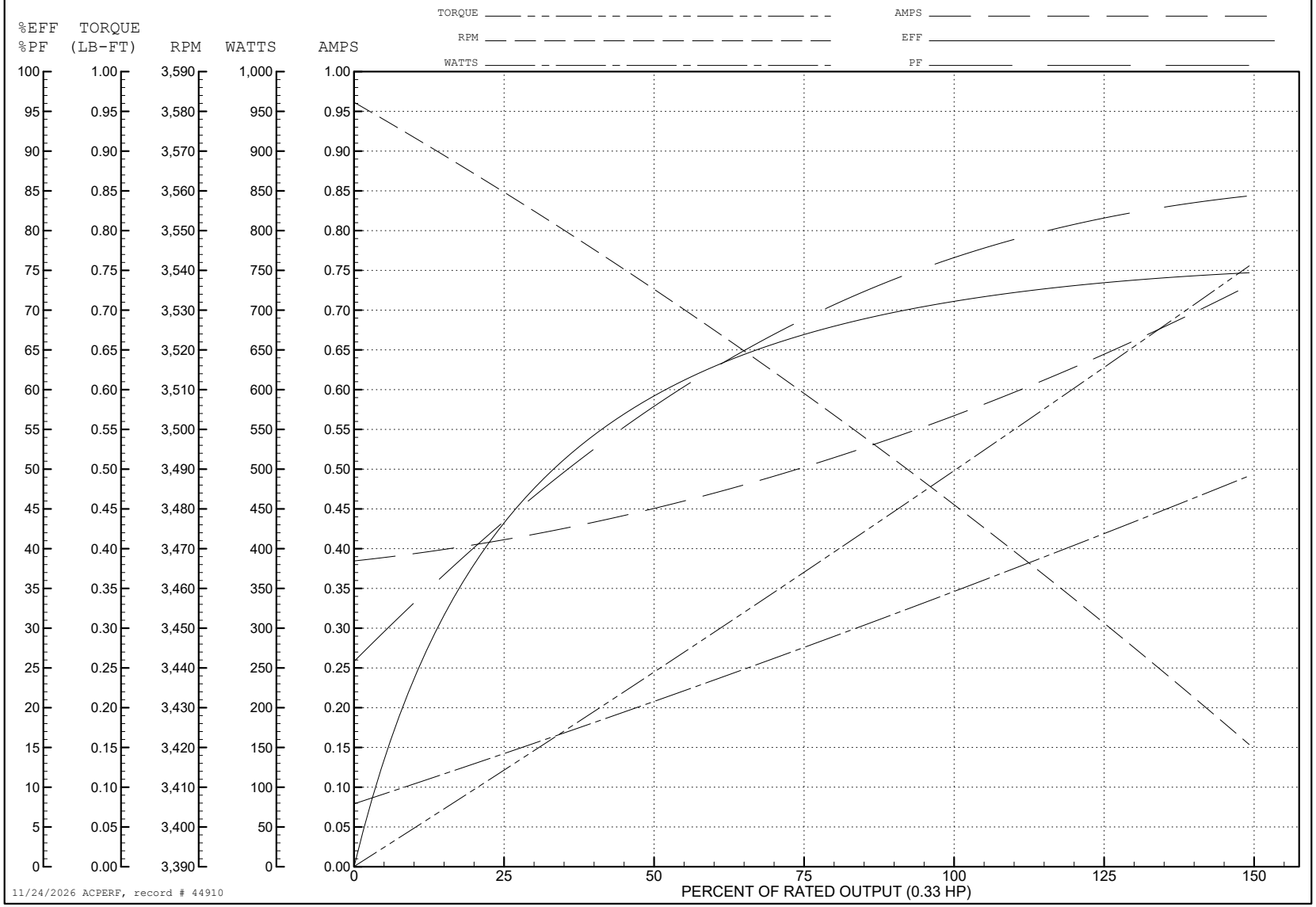
ABB Motors and Mechanical Inc.

WINDING # 34WGR140

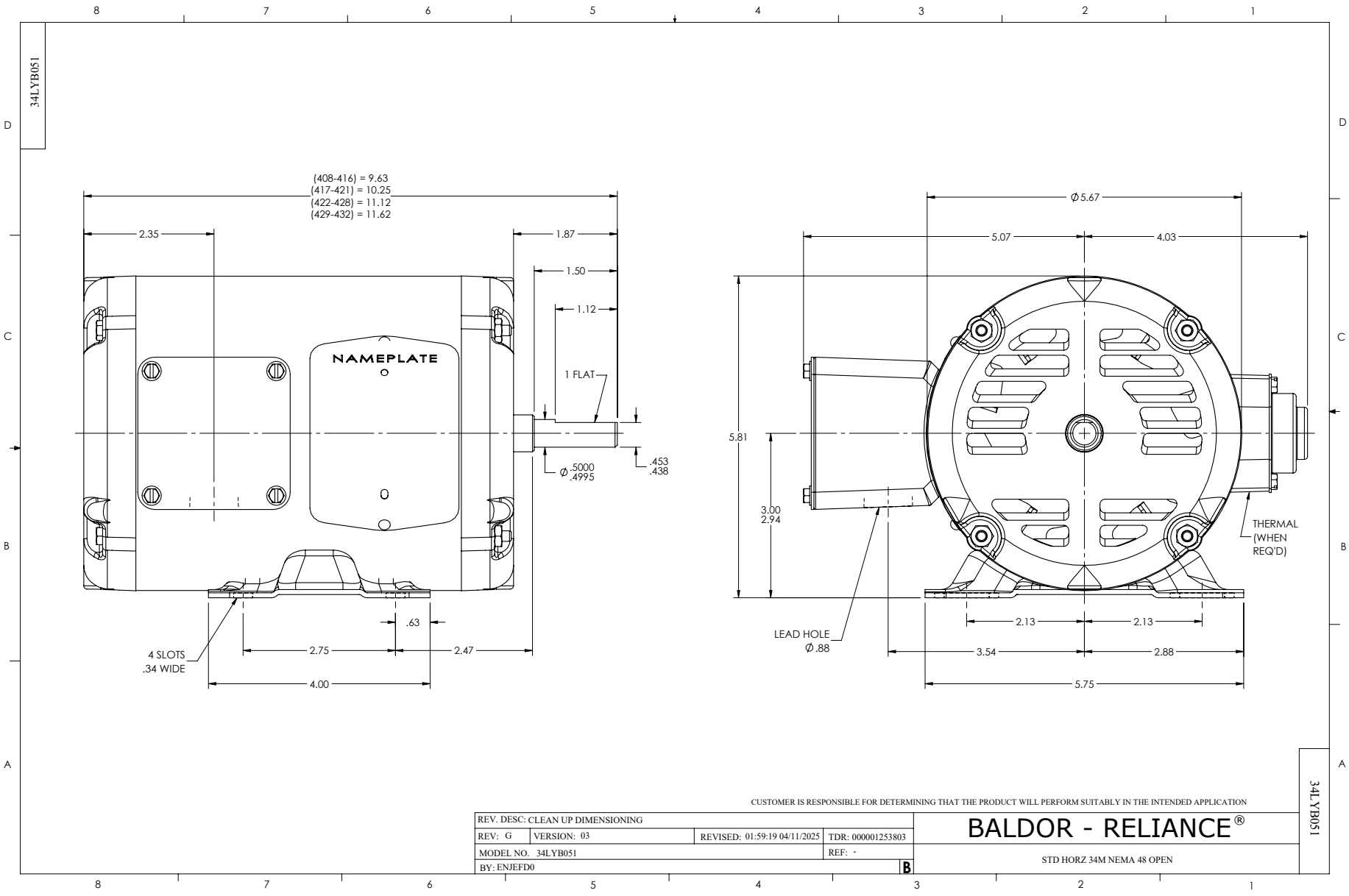
0.33 HP 3 PH 60 HZ 3450 RPM 460 V 3413M

Typical performance - not guaranteed values.

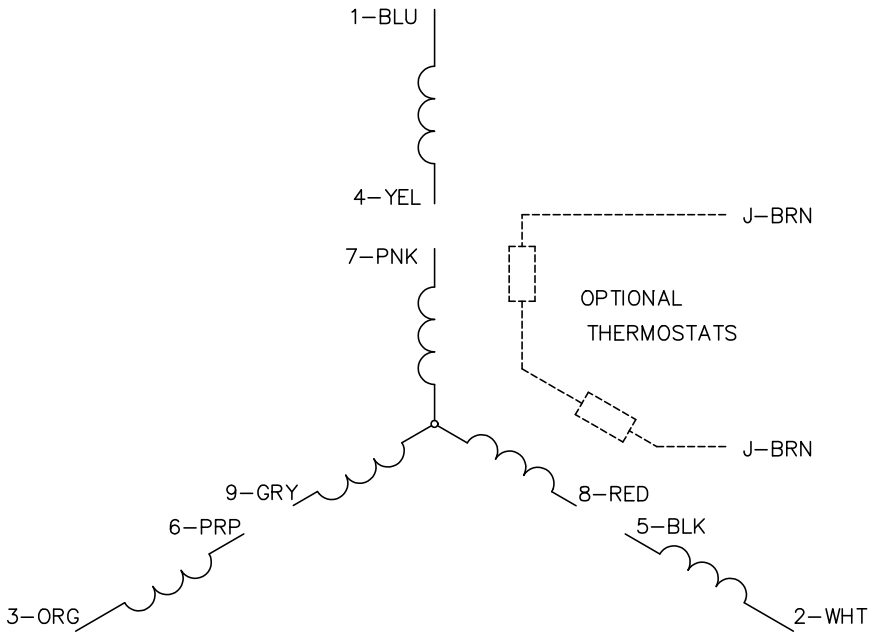
TORQUES(LB-FT): PO=2.52 PU=2.29 LR=2.37 LRA=4.66

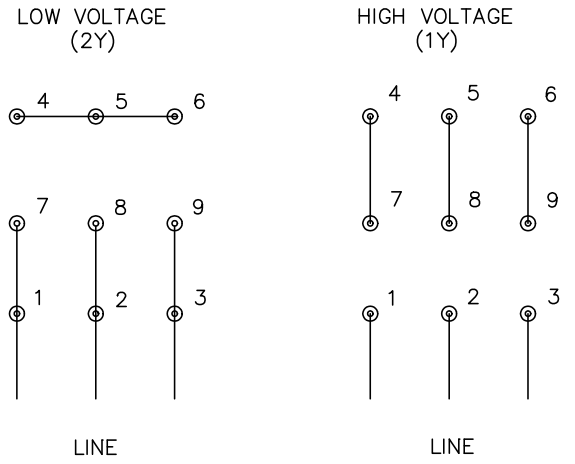


11/24/2026 ACPERF, record # 44910


34LYB051
(408-416) = 9.63
(417-421) = 10.25
(422-428) = 11.12
(429-432) = 11.62
2.35
1.87
1.50
1.12
NAMEPLATE
1 FLAT
Ø .5000
.4995
.453
.438
.63
4 SLOTS
.34 WIDE
2.75
2.47
4.00
Ø5.67
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: G
VERSION: 03
REVISED: 01:59:19 04/11/2025
TDR: 000001253803
MODEL NO. 34LYB051
REF: -
BY: ENJEFD0
B
BALDOR - RELIANCE®
STD HORZ 34M NEMA 48 OPEN
34LYB051

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