ABB BALDOR RELIANCE

Customer information packet

SPM30012

.75HP, 3450RPM, 3PH, 60HZ, 48, 3424M, 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	.750 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	WEEE
	C UR US
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	1.000 A @ 460.0 V
	2.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	F

Part Detail

Revision	C
Type	AC
Mech. spec.	34F002
Base	
Status	PRD/A
Elec. spec.	34WGW715
Layout	34LYF002
Eff. date	12-31-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	09-12-2023

Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3424M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	10.63 IN
Power Factor	81
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	1.25
Shaft Diameter	0.500 IN
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

NP4558A02LL											
CAT #	SPM30012			**WGT**	30	**LBS**					
SER #					**ENCL**	OPEN					
SPEC	34F002W715				**CC**			**IP**	23		
HP	.75						**NEMA NOM. EFF**			80	
VOLTS	230/460				**PF**	81					
AMPS	2/1										
RATING	40C AMB-CONT										
RPM	3450				**PH**	3	**DES**	B			
FRAME	48	**HZ**	60		**CODE**	L	**CLASS**	F			
SER.F.	1.25	**SF AMP**	2.4/1.2								
DE	6203		**ODE**	6203							
GREASE	POLYREX EM										
						QR					
YR											

AC Induction Motor Performance Data
Record # 100844
Typical performance - not guaranteed values

Winding: 34WGW715-R015	**Type:** 3424M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	1.1 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			2/1	**Breakdown Torque**	5.4 LB-FT
R.P.M.			3450	**Pull-up Torque**	4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	5.2 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	9 A
Service Factor (S.F.)			1.25	**No-load Current**	0.53 A
NEMA Nom. Eff.	80	**Power Factor**	81	**Line-line Res. @ 25ºC**	15 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	30°C
S.F. Amps			2.4/1.2	**Temp. Rise @ S.F. Load**	36°C
				Locked-rotor Power Factor	62.1
				Rotor inertia	0.0223 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	47	66	76	81	84	85	84
Efficiency	62.6	75	79.6	81.3	81.7	81.3	81.7
Speed	3559	3526	3491	3455	3415	3373	3415
Line amperes	0.59	0.7	0.85	1.03	1.22	1.44	1.22

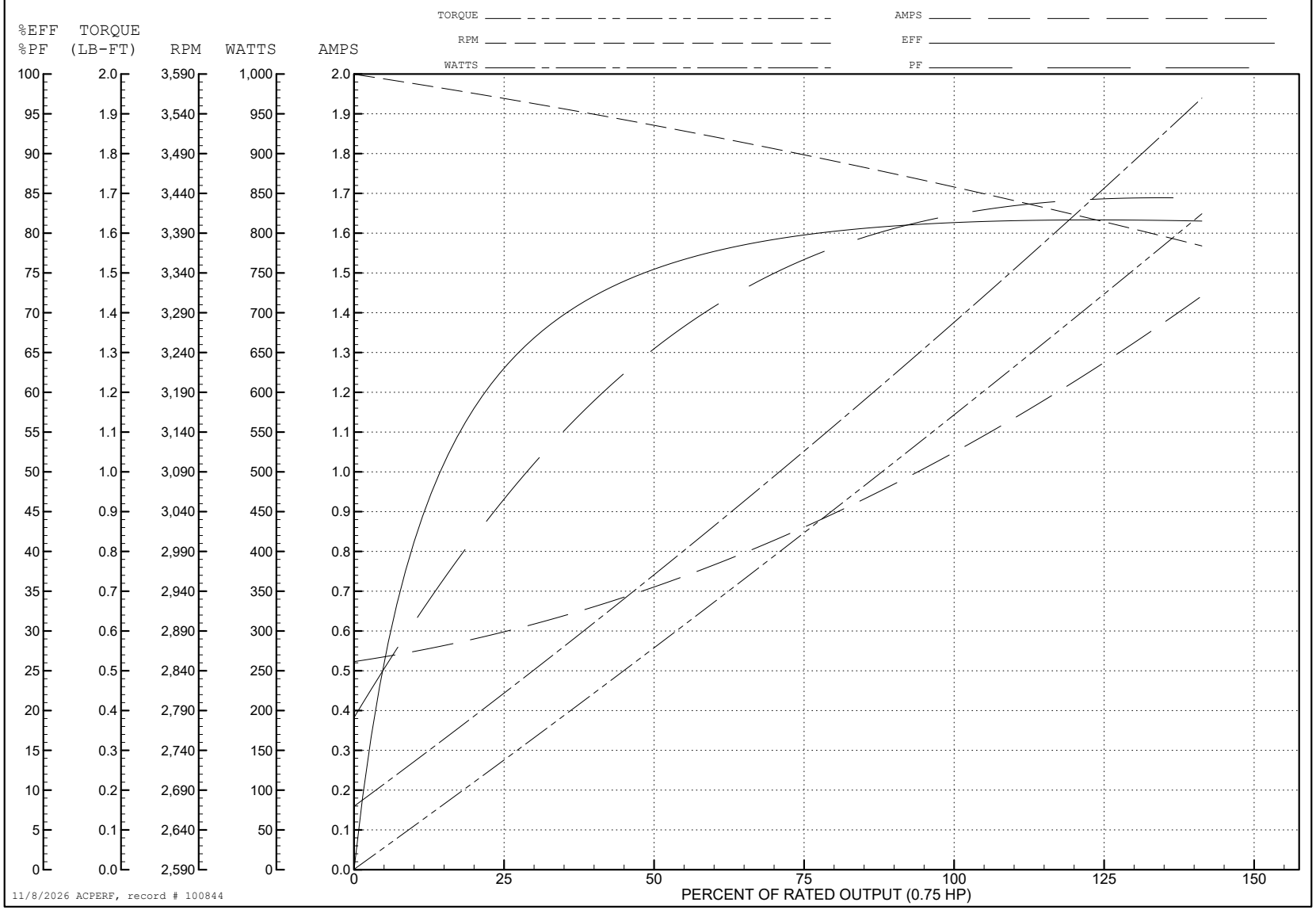
ABB Motors and Mechanical Inc.

WINDING # 34WGW715

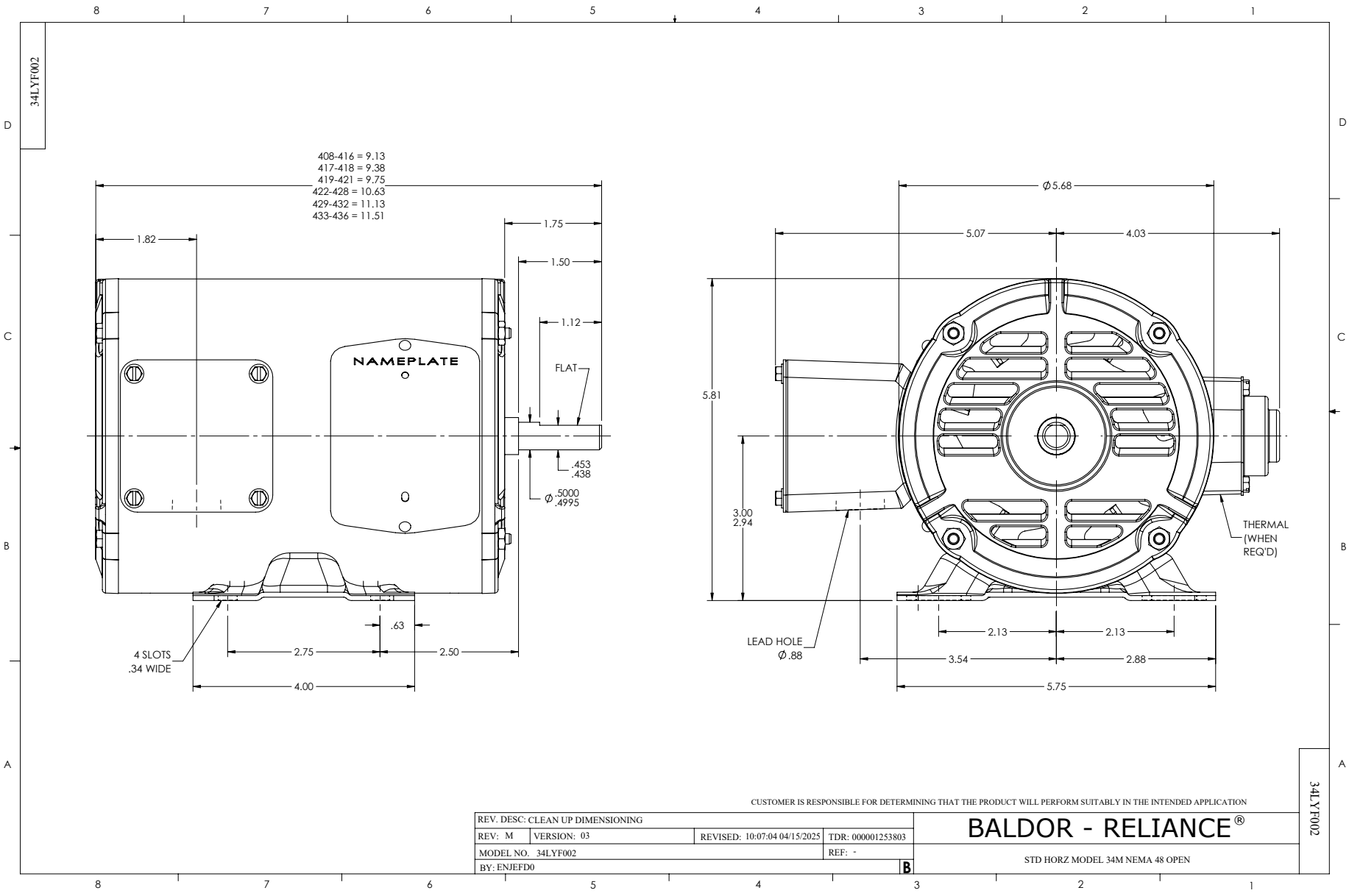
0.75 HP 3 PH 60 HZ 3450 RPM 460 V 3424M

Typical performance - not guaranteed values.

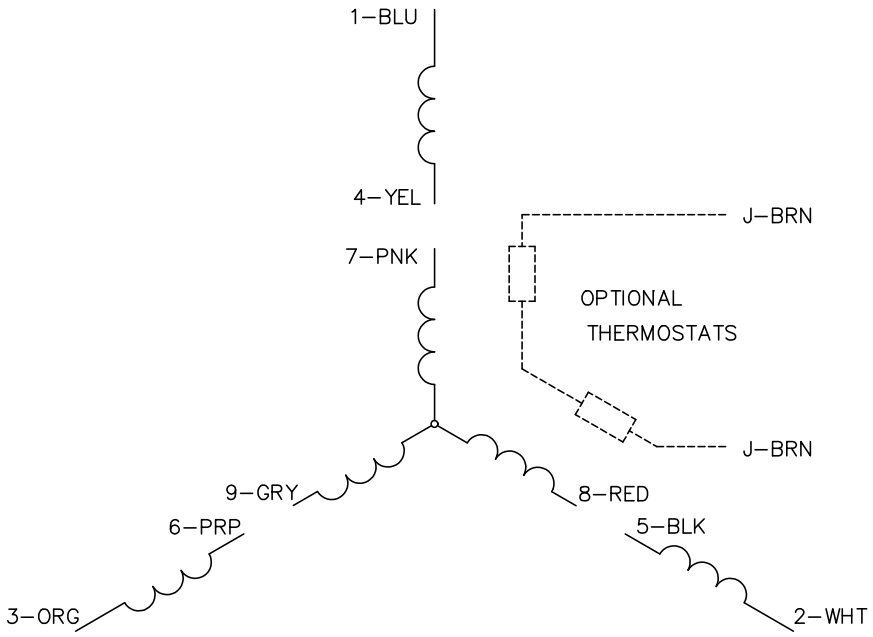
TORQUES(LB-FT): PO=5.4 PU=4 LR=5.2 LRA=9

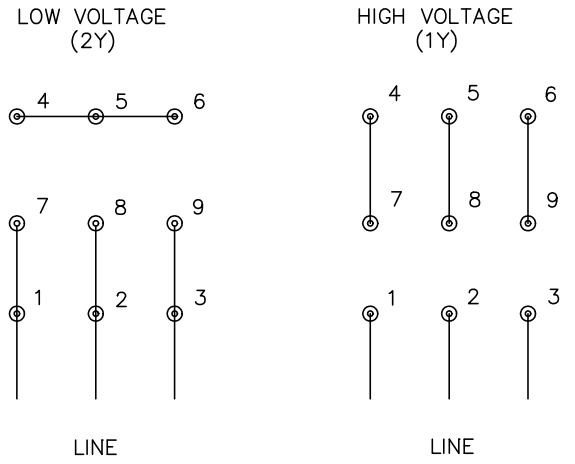


11/8/2026 ACPERF, record # 100844


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