ABB BALDOR RELIANCE

Customer information packet

CSPNM3542

.75HP, 1735RPM, 3PH, 60HZ, 56HC, 3436M, TENV, F
Class - None
Division - Not Applicable

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11/19/2026 8:32:27 AM

Specifications

Enclosure	TENV
Frame	56HC
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	1800 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	.950 A @ 460.0 V
	1.900 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
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	B
Type	AC
Mech. spec.	34N590
Base	
Status	PRD/A
Elec. spec.	34WGR770
Layout	34LYN590
Eff. date	01-17-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-07-2024

Inverter Code	Not Inverter
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3436M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.63 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1735 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 #	CSPNM3542	**WGT**	40	**LBS**						
SER #				**ENCL**	TENV					
SPEC	34N590R770			**CC**	010A	**IP**	54			
HP	.75					**NEMA NOM. EFF**		84		
VOLTS	230/460			**PF**	87					
AMPS	1.9/0.95									
RATING	40C AMB-CONT									
RPM	1735			**PH**	3	**DES**	B			
FRAME	56HC	**HZ**	60	**CODE**	N	**CLASS**	F			
SER.F.	1.15	**SF AMP**								
DE	6203	**ODE**	6203							
GREASE	POLYREX EM									
						QR				
YR										

AC Induction Motor Performance Data
Record # 100804
Preliminary Data Sheet

Winding: 34WGR770-R002	**Type:** 3436M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	2.29 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.9/0.95	**Breakdown Torque**	10.1 LB-FT
R.P.M.			1735	**Pull-up Torque**	7.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	8.8 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	9 A
Service Factor (S.F.)			1.15	**No-load Current**	0.49 A
NEMA Nom. Eff.	84	**Power Factor**	87	**Line-line Res. @ 25ºC**	15.4 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	66°C
S.F. Amps				**Temp. Rise @ S.F. Load**	28°C
				Locked-rotor Power Factor	46.4
				Rotor inertia	0.0857 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	67	80	87	90	92	89
Efficiency	78.3	85.6	86.8	86.6	85.2	82.9	85.8
Speed	1783	1767	1751	1734	1713	1688	1721
Line amperes	0.53	0.62	0.77	0.94	1.16	1.43	1.07

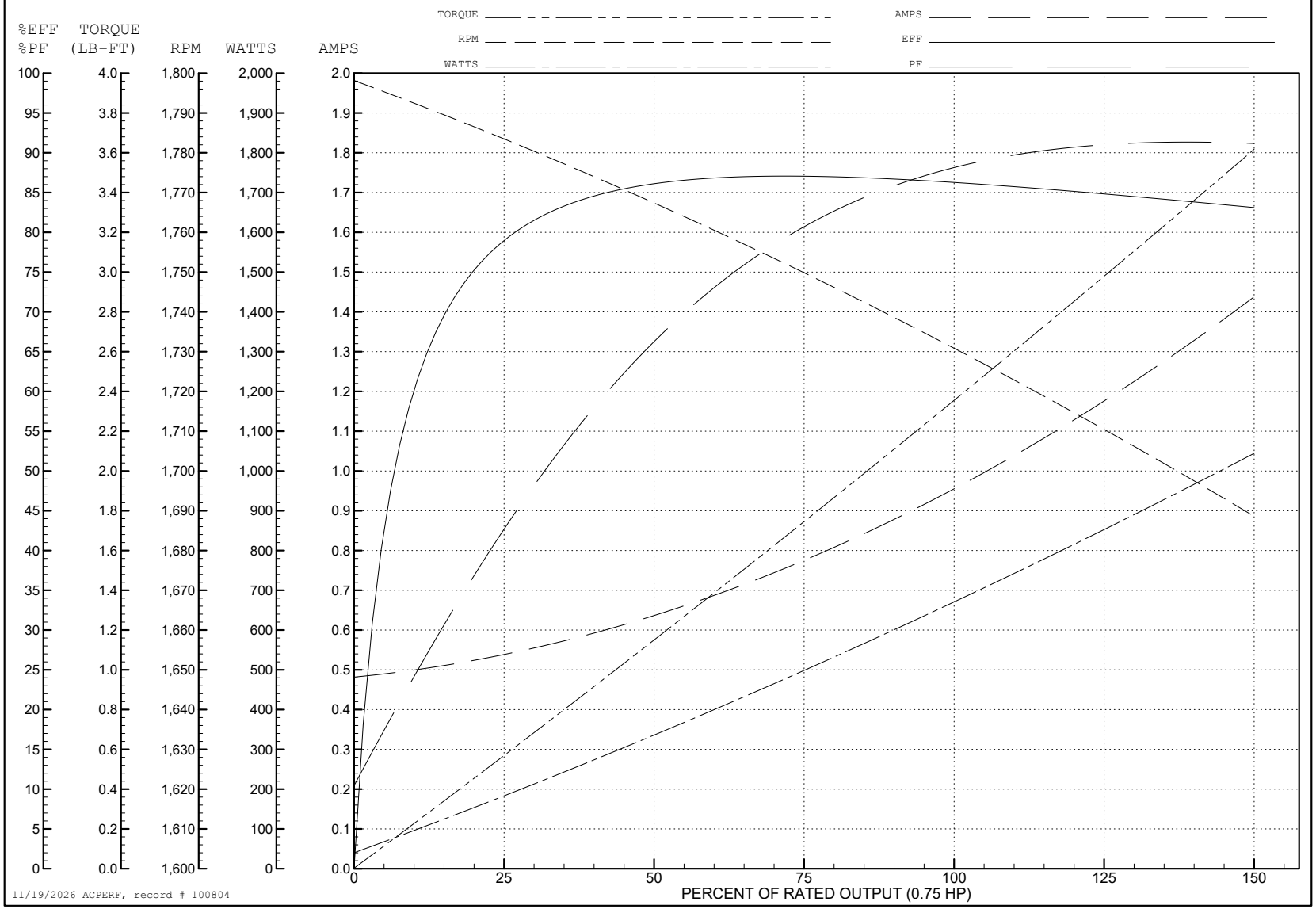
ABB Motors and Mechanical Inc.

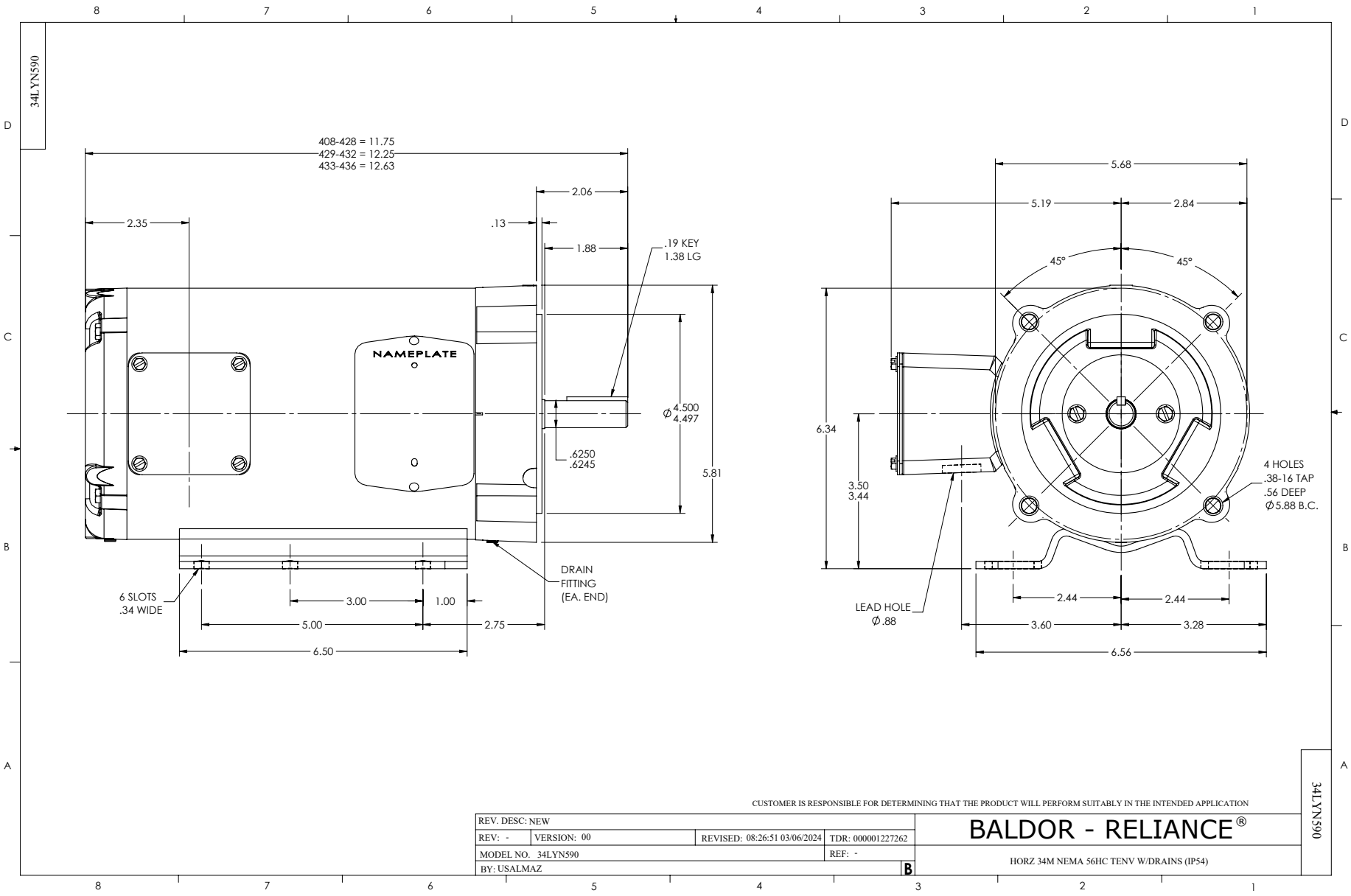
WINDING # 34WGR770

0.75 HP 3 PH 60 HZ 1735 RPM 460 V 3436M

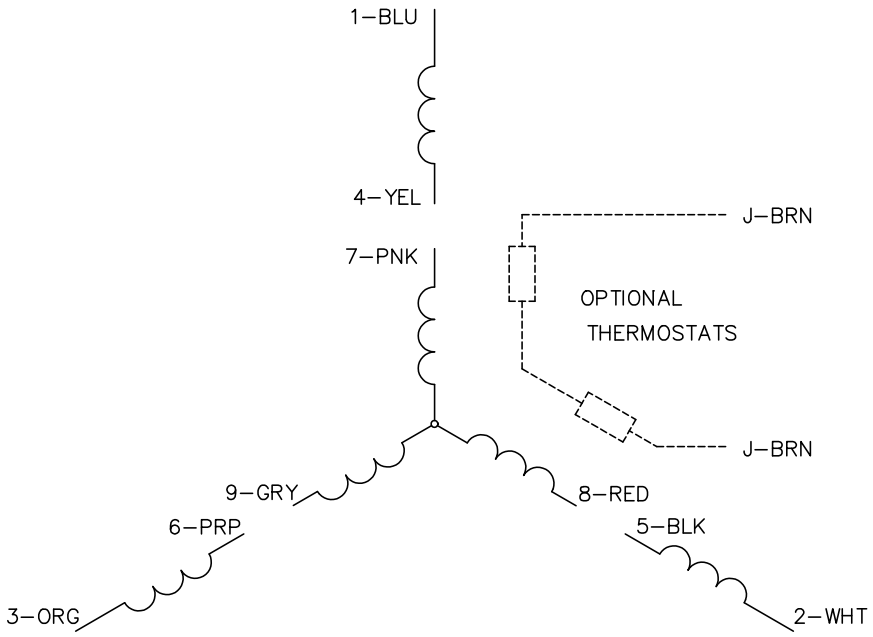
Typical performance - not guaranteed values.

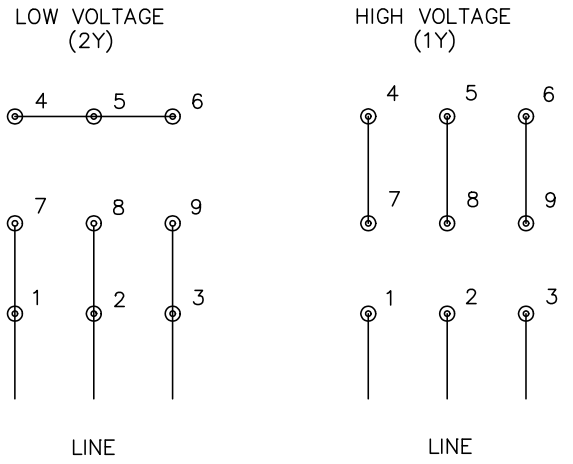
TORQUES(LB-FT): PO=10.1 PU=7.8 LR=8.8 LRA=9




34LYN590
408-428 = 11.75
429-432 = 12.25
433-436 = 12.63
2.06
2.35
.13
1.88
.19 KEY
1.38 LG
NAMEPLATE
Ø 4.500
4.497
.6250
.6245
5.81
DRAIN
FITTING
(EA. END)
6 SLOTS
.34 WIDE
3.00
1.00
5.00
2.75
6.50
5.68
5.19
2.84
45°
45°
6.34
3.50
3.44
4 HOLES
.38-16 TAP
.56 DEEP
Ø5.88 B.C.
LEAD HOLE
Ø .88
2.44
2.44
3.60
3.28
6.56
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: -
VERSION: 00
REVISED: 08:26:51 03/06/2024
TDR: 000001227262
MODEL NO. 34LYN590
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ 34M NEMA 56HC TENV W/DRAINS (IP54)
34LYN590

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